



Designing the Future of Rehab Seating



***Dear Seating Professional:***

When you order a seating system, you want three things: (1) a quality product, (2) reliable service, and (3) solid information. At Pin Dot we provide all three.

Our seating systems support clients in a functional and comfortable position. The custom-molded Contour-U cushions are guaranteed to fit even your toughest clients, and they are easily mounted on the Impala mobility base. For mildly involved wheelchair users EndoFlex is the best seat. It fits both manual and powered wheelchairs.

All products are backed by Pin Dot's unmatched service. If a cushion doesn't fit your client exactly as you want it to, we'll re-make it at no extra charge. We'll even take the cushion back and give you a full refund, if you feel it just isn't quite right.

Pin Dot provides all the information you need. We conduct three-day training courses, advanced training courses, and annual seating seminars. In addition, we offer a complete line of educational videotapes and publish two newsletters.

If you care about seating as much as we do, give us a call and let's work together.

A handwritten signature in dark ink, appearing to read 'Michael Silverman'. The signature is fluid and stylized, with a long horizontal stroke at the end.

Michael Silverman, C.O.

President

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## Training

The *Pin Dot Training Course* is for dealers and rehab professionals who want to learn about innovative seating technologies. Participants learn about seating theory, products, and how to evaluate and mold a client. Graduates are certified in providing the Contour-U seating system.

### Schedule

**Thursday** begins with a discussion of different seating systems and how they fit into the marketplace. Molding technology is introduced and practiced, and the day concludes with a review of Impala and EndoFlex.

**Friday** starts with seating theory. Interfacing hardware is then discussed, followed by a fabrication session. At the end of the day, several case studies are reviewed.

**Saturday** is "molding day" and participants evaluate and mold different clients. A plaster impression (which is used to produce Contour-U cushions) is made and evaluated.

### Speakers

**Michael Silverman, CO**, President, invented the Contour-U seating system. He has lectured extensively on seating and published articles in several professional journals.

**C. Kerry Jones, BA**, Rehab Engineer, is an expert in wheelchair seating and mobility. He designed the KISS simulator, and co-developed Impala. Kerry is employed at the Rehab Technology Center, Indiana.

**Michael Heinrich, BSME**, Chief Engineer, spent eight years at the University of Tennessee Rehab Engineering Program. He was instrumental in the development of EndoFlex and Impala.

**Cathy Bazata, OTR/L**, was instrumental in the development of the Rehab Technology Center, she presently works as a consultant for Sunrise Community, providing seating systems for adults in northern Florida.

### Dates

March 8-10, 1990

May 17-19, 1990

Please call Pin Dot at 1-800-451-3553 for additional dates.

The *Pin Dot Training Course* costs \$495 (dealer cost).

The fee includes course materials, continental breakfasts, lunches, and transportation to and from the designated hotel.

To register, please send your check to Pin Dot Products at least one month in advance.

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## Simulator

To evaluate a client for a seating system, the dealer and rehab professional needs a versatile evaluation tool. The ideal tool should make it easy to simulate the final product and evaluate the results.

**NEW!** The KISS (Keep it Simple) simulator is the most flexible and easy-to-use simulator on the market. Dealers who have participated in beta testing have found that the simulator helped reduce evaluation time by over 20%. Once you try it, you will wonder how you ever managed without it.

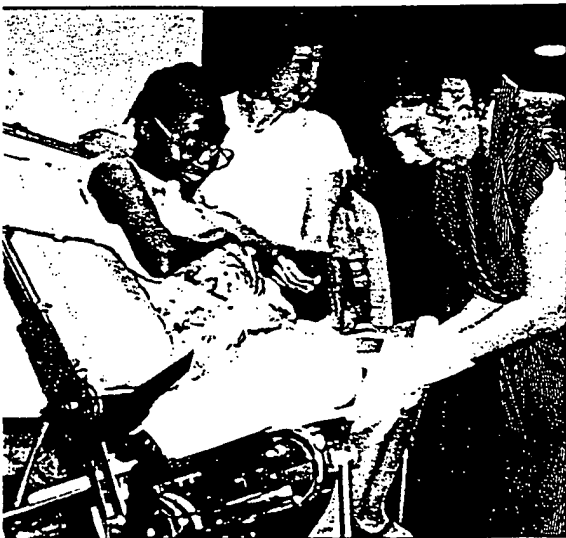
**Contoured & planar.** The KISS simulator can be used as a molding frame. By adding optional panels it can also be used as a planar simulator or a hybrid of both.

**Multi-adjustable.** The simulator features easy adjustments for seat depth, back height, back-to-seat angle, and tilt-in-space.

**Add-on accessories.** The optional Magic Hands (MH01) and legrests (LT06 & LB08) make it extremely easy to simulate proper head, trunk, thigh, and foot support.

**Built-in base.** The simulator has a built-in base and an optional pedestal mount which allows for easy interfacing to an Arrow XT base.

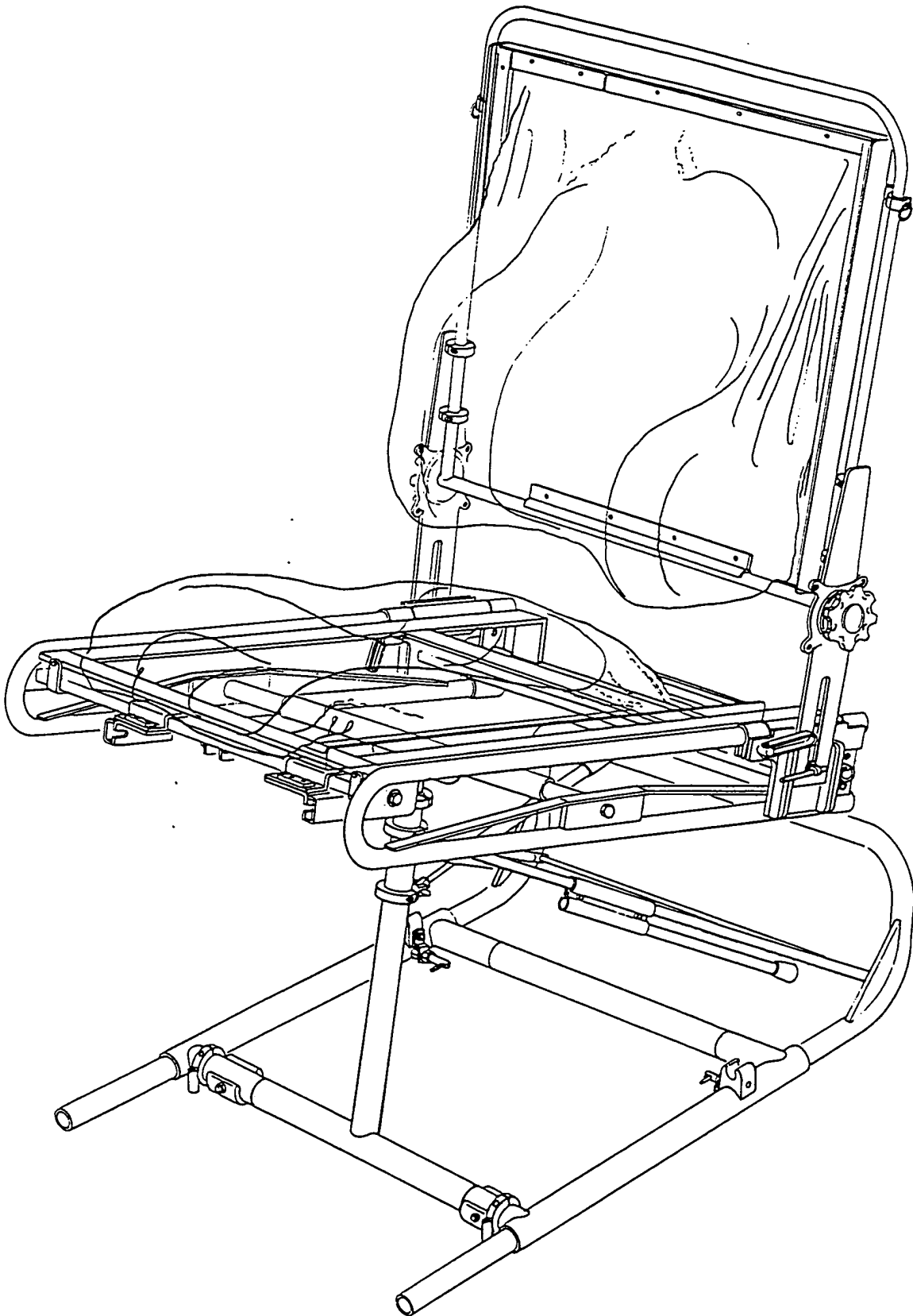
**Portable.** In less than a minute, the simulator can be folded for transportation. It comes with a set of hand-truck style wheels and a handle.



### KISS Simulator

SM01	KISS simulator .....	\$3495*
TL30	Dual-head vacuum-pump .....	\$495*
MF10	Replacement seat bag .....	\$45*
MF12	Replacement back bag .....	\$45*
SM40	Planar attachments .....	call
SM50	Arrow XT adapter .....	\$45*

\*dealer cost



## Contour-U

Contour-U is for clients with moderate and severe asymmetrical deformities. If you have a client where you have tried almost everything, try Contour-U. We guarantee it will work.

**NEW!** The Comfi cushion is a soft version of Contour-U. It is excellent for clients who suffer from pressure problems and skin breakdown. Comfi is made just like Contour-U, only with a more supple type of foam.

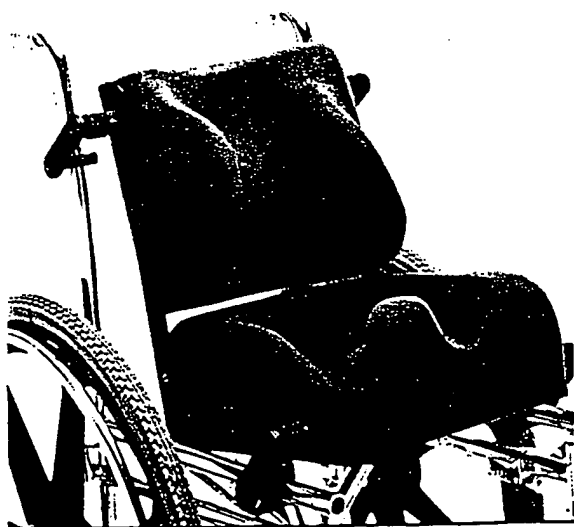
**Total contact seating** The custom-contoured cushions provide total-contact support and even weight distribution. They can be molded up to eight-inches deep for maximum support and control.

**Customized support** The cushions can be customized to solve seating problems such as tight hamstrings and leg length discrepancies.

**Minimum labor** Contour-U is centrally fabricated. The dealer simply sends us an impression of the client, and we do the rest.

**Customized pricing** Cushion prices vary depending on the level of customization. The up-charges are based on the need for additional labor and materials.

**Free remakes** If for some reason you are not satisfied with the cushion, we will remake it at no extra charge, for up to 60 days.



### Contour-U cushions

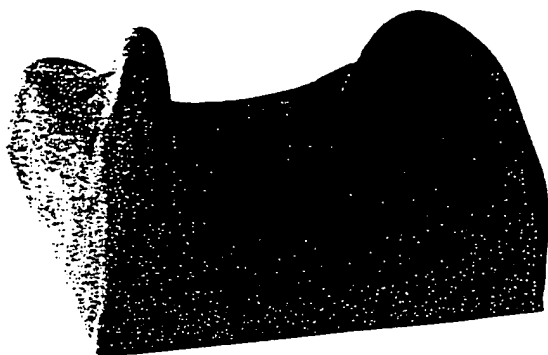
Contour-U cushions are custom made in any size up to 24-inches x 28-inches x 8-inches. Oversize cushions are over 18-inches wide.

**CM02 Contour-U cushion..... \$445**

**CM20 Oversize cushion - add..... \$50**

*please specify color and fabric*

## Comfi cushions



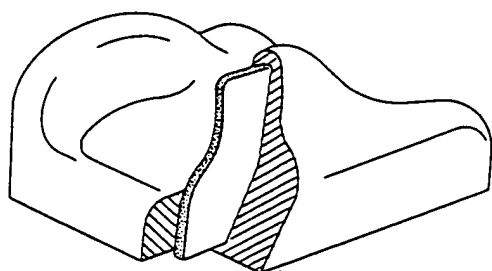
Comfi cushions are made with a softer foam for increased pressure relief. Standard upholstery for Comfi is the same as Contour-U cushions; use the optional lycra for even greater pressure relief. (The lycra upholstery remains resilient after it is formed.) **It is highly recommended to use thin reinforced laterals with Comfi back cushions.**

**CM01 Comfi cushion ..... \$475**

**CM15 Lycra fabric for Comfi - add..... \$38**

*please specify color and fabric*

## Thin reinforced laterals

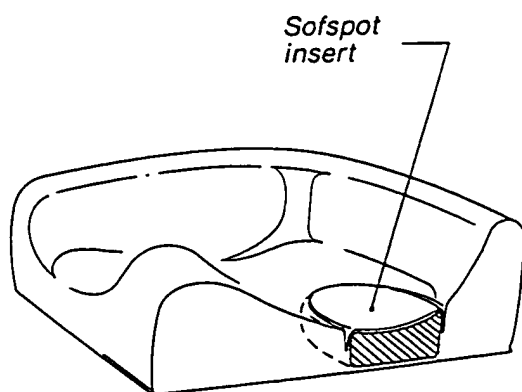


Lateral support walls on the back cushion can be thinned to allow maximum arm movement. Inside each lateral we mold structural foam to provide added strength.

**CM18 Thin reinforced lateral(s) - add..... \$54**

*Priced per cushion, for one or both sides.*

## Sofspot



A Sofspot is molded into the cushion, producing a cushion with two different foam densities. The Sofspot is placed in specific areas where pressure relief is required. Use the template when marking the mold. *(Not necessary for use with Comfi.)*

**CM07 Sofspot (4" round) - add..... \$120**

**CM08 Sofspot (4" x 8") - add..... \$120**

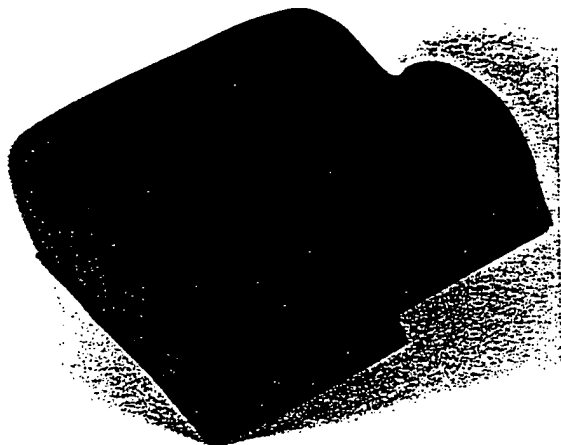
**CM55 Sofspot (8" x 8") - add..... \$120**

**CM50 Sofspot (custom size) - add..... \$200**



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### ***Leg length discrepancy/Pelvic-strap notch***



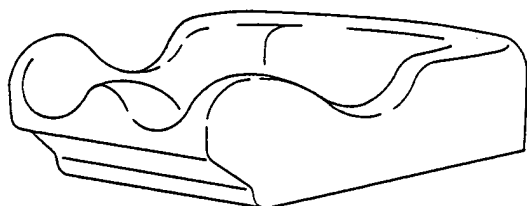
Cushions can be shaped to support a leg length discrepancy. The amount of the discrepancy should be specified in 1-inch increments, as well as whether the pan should fit the shorter or longer leg.

Pelvic-strap notches allow for a more direct pull of the lap belt across the client's hips.

- CM10** Leg length discrepancy ..... n/c  
**CM12** Pelvic strap notches..... n/c

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### ***Undercut front edge***

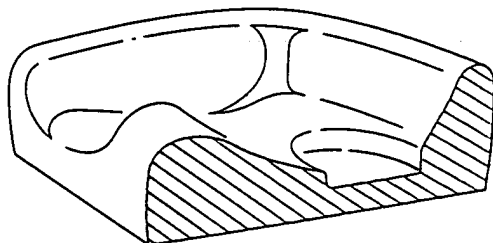


The front edge of the cushion can be undercut to allow the legs to come back under the seat pan when accommodating tight hamstrings. The depth of the undercut is approximately two inches.

- CM13** Undercut front edge - add..... \$50  
Both legs(w/discrepancy) - add..... \$100

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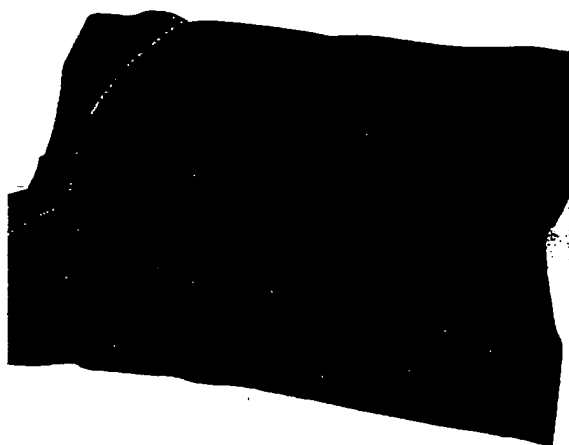
### ***Recess for external pads***



A 3/4-inch recess can be molded into the cushion, producing a space for you to insert a commercially available gel or foam pad. Velcro is sewn to the cloth or glued to the vinyl to make it easier to attach the insert. Use the template when marking the mold. (Not necessary for use with Comfi.)

- CM27** Recess (4" round) - add..... \$40  
**CM28** Recess (4" x 8") - add ..... \$40  
**CM29** Recess (8" x 8") - add ..... \$40  
**CM30** Recess (custom size) - add ..... \$60

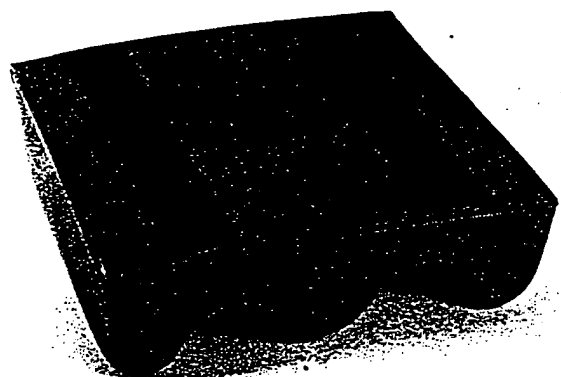
### Untrimmed cushions



For those of you who like to do-it-yourself, untrimmed cushions allow you to mount the cushions to the system yourself. Most commonly used when mounting the cushions to a system without using aluminum pans.

**CM03** Untrimmed cushion option..... n/c

### Upholster cushion back / Velcro mounting



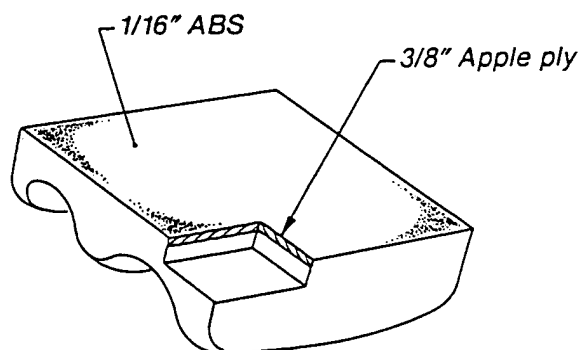
We can upholster the back of a cushion to make it more durable, often used if removed from the pan often (for cleaning etc.).

Cushions can be mounted with velcro to commercially available car seats or strollers. Velcro hook is sewn onto upholstery and molded onto the back of the cushion.

**CM11** Velcro mounting - add.....\$90

**CM19** Upholster cushion back - add.....\$60

### Wood mounting

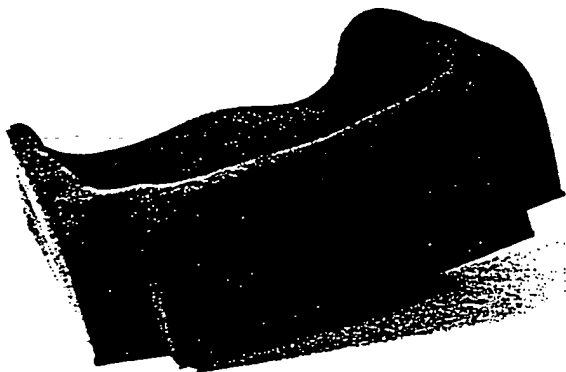


We can wood mount the cushions as an alternative to aluminum pans. A 7/16-inch plastic/wood laminate is molded into the cushion. Accessories can be added using threaded inserts. Use the threaded insert tool after drilling for insertion.

**CM06** Wood mount - add.....\$110

**SC03** Threaded inserts (25).....\$10

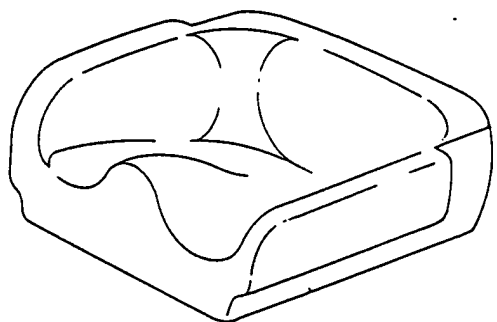
**TL07** Threaded insert tool.....\$20



### **Notched corners**

Notching the rear corners of the seat cushion allows the seat to move further back in the wheelchair. This helps to maintain proper center of gravity by positioning the person closer to where they would be with the original sling upholstery. *(For use with untrimmed or wood mounted cushions only.)*

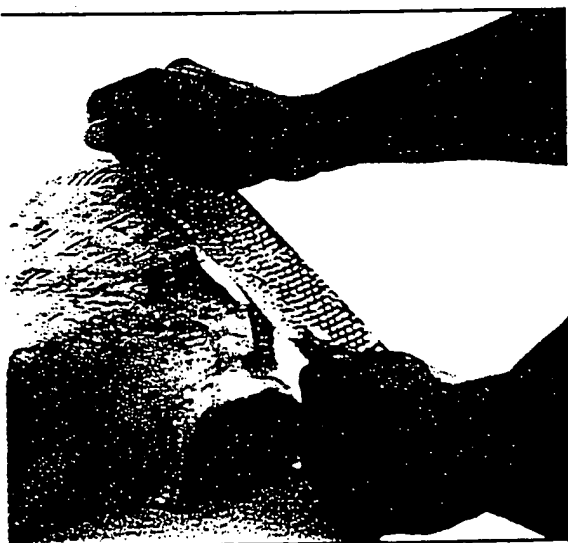
**CM17 Notch the corners - add ..... \$48**



### **Rail cuts**

Rail cuts are used to narrow the lower border of the cushion by 1" on each side. This allows you to put a cushion into a pan that is two inches narrower, e.g., a 16" cushion into a 14" pan. *(Notching the corners is done at no additional charge.)*

**CM22 Rail cuts - add..... \$114**

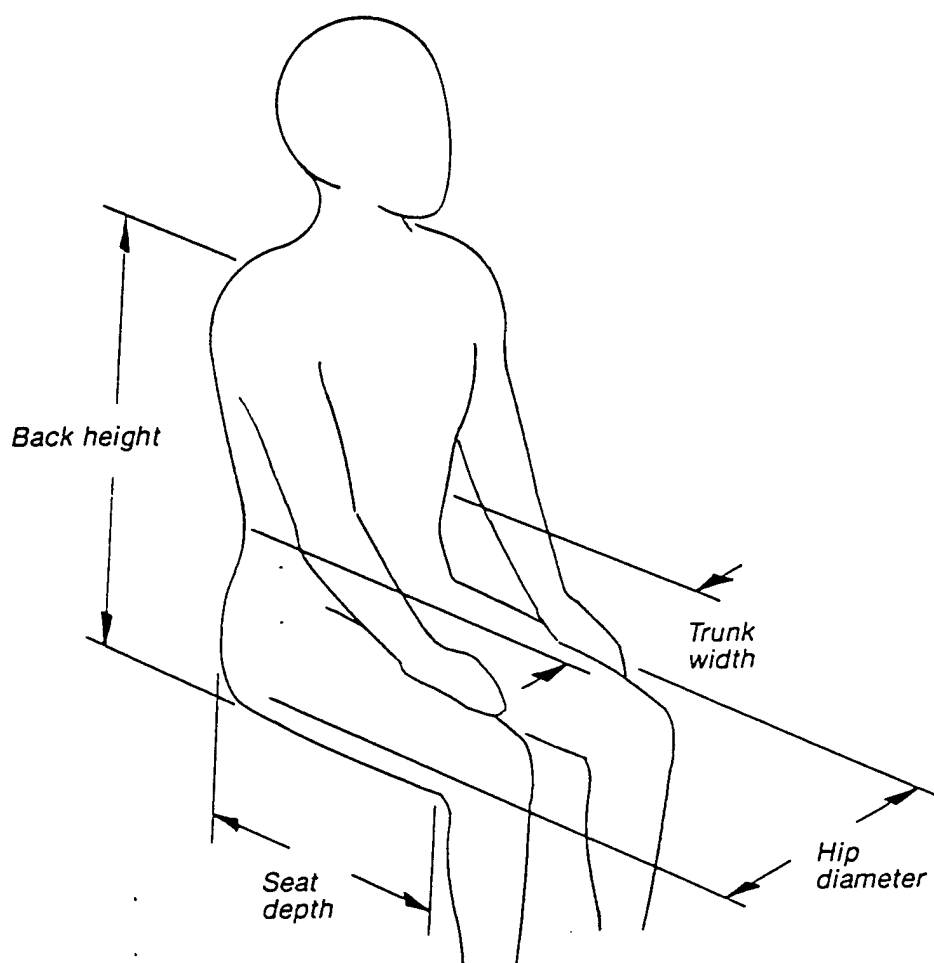


### **Remake policy**

Cushions are guaranteed to fit properly and will be remade at no charge within 60 days from the shipping date. After 60 days, a new mold (or modified cushion) will be required, and you will be charged for the remake.

**CM04 Remake (1-60 days)..... n/c**  
**CM05 Remake (61-120 days)..... \$250**

## Measuring for modular cushions



### Back cushions

Measure the width of the client's trunk right below the ribs. Add 3 inches to this measurement and specify the closest modular cushion width.

Measure the back height of the client. Subtract 7 inches from this measurement to determine the proper back height.

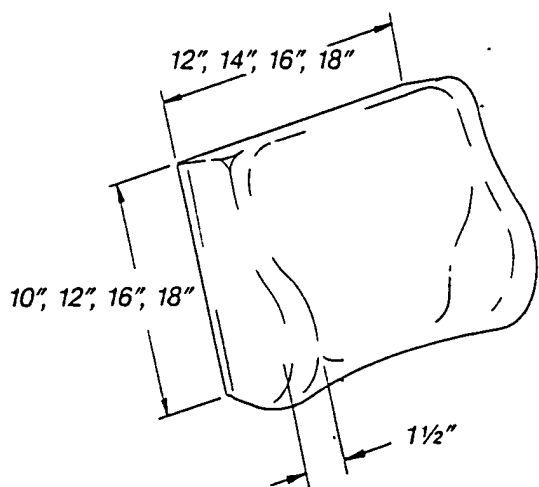
### Seat cushions

Measure the hip diameter at the trochanters and add 2 inches to specify the cushion width.

Measure the seat depth of the client. Add 1 inch to this measurement and choose the closest length available that does not exceed this dimension. (This compensates for the cushion thickness behind the buttocks.) A shorter cushion must be specified for tight hamstring clearance.

## Modular cushions

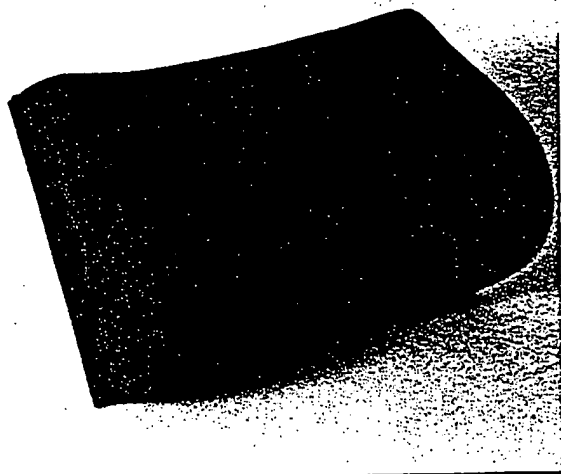
Modular cushions are used for clients with minimal orthopedic deformity and symmetrical seated postures. Modular cushions come in standard sizes and styles. To ensure a good fit, care must be taken in ordering. (see measuring information see page 9) Any modifications to modular cushions will cause them to be charged as Contour-U custom cushions.



### Modular back cushions

Modular back cushions work well for clients who sit with an average to increased amount of lumbar extension (lordosis).

Overall depth is 7-inches for 14, 16, & 18-inch wide backs and 5-inches for 12-inch backs.



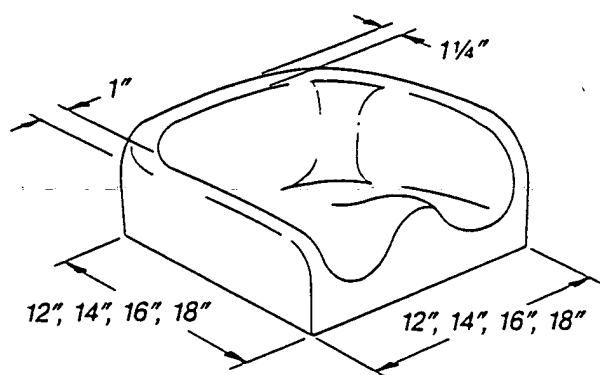
### Back cushions

<b>MB20</b>	<b>12 x 10-inch back cushion</b>	<b>\$260</b>
<b>MB22</b>	<b>12 x 12-inch back cushion</b>	<b>\$260</b>
<b>MB42</b>	<b>14 x 12-inch back cushion</b>	<b>\$260</b>
<b>MB66</b>	<b>16 x 16-inch back cushion</b>	<b>\$260</b>
<b>MB88</b>	<b>18 x 18-inch back cushion</b>	<b>\$260</b>

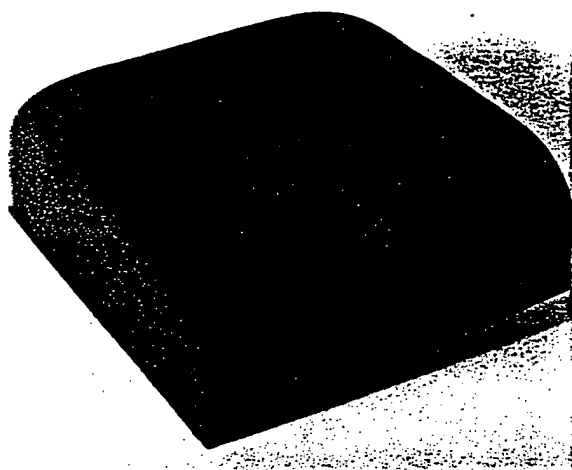
*please specify color & upholstery*

### Modular seat cushions

Modular seat cushions are shaped to support the pelvis in a neutral or slightly anterior position, thereby preventing sliding. Lateral leg supports channel the legs into a proper alignment. The seats are available with or without a molded abductor. Overall thickness is 5 inches for seat cushions with abductors, 4 inches for seats without abductors



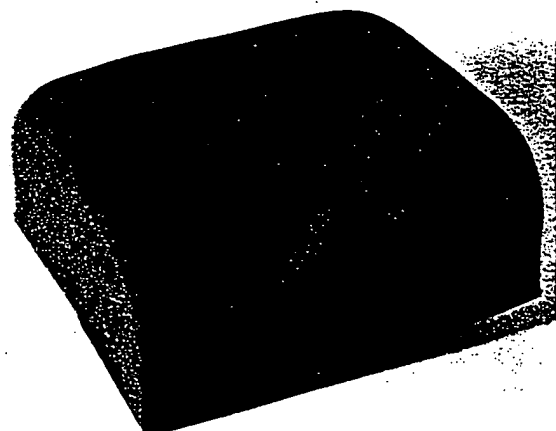
### Seat cushions



<b>MS22 12 x 12-inch seat cushion.....</b>	<b>\$260</b>
<b>MS24 12 x 14-inch seat cushion.....</b>	<b>\$260</b>
<b>MS44 14 x 14-inch seat cushion.....</b>	<b>\$260</b>
<b>MS46 14 x 16-inch seat cushion.....</b>	<b>\$260</b>
<b>MS66 16 x 16-inch seat cushion.....</b>	<b>\$260</b>
<b>MS68 16 x 18-inch seat cushion.....</b>	<b>\$260</b>
<b>MS88 18 x 18-inch seat cushion.....</b>	<b>\$260</b>

*please specify color & upholstery*

### Seat cushions with abductors



<b>MP22 12 x 12-inch seat w/abductor .....</b>	<b>\$260</b>
<b>MP24 12 x 14-inch seat w/abductor .....</b>	<b>\$260</b>
<b>MP44 14 x 14-inch seat w/abductor .....</b>	<b>\$260</b>
<b>MP46 14 x 16-inch seat w/abductor .....</b>	<b>\$260</b>
<b>MP66 16 x 16-inch seat w/abductor .....</b>	<b>\$260</b>
<b>MP68 16 x 18-inch seat w/abductor .....</b>	<b>\$260</b>
<b>MP88 18 x 18-inch seat w/abductor .....</b>	<b>\$260</b>

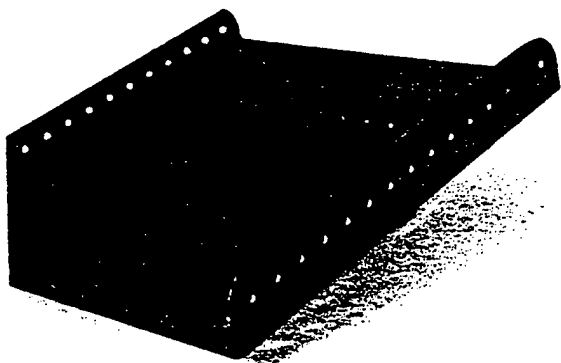
*please specify color & upholstery*

## ***Aluminum pans***

The aluminum pans can be used with a variety of cushions, such as Contour-U®, Sun-Mate, Jay®, T-Foam®, and ROHO®. The cushions easily snap into and out of the pans for cleaning or replacement.

The pans are available from 12 to 22 inches in width, and they are strong enough to support clients of up to 225 lbs. Pre-punched holes make it easy to attach and adjust interfacing hardware and accessories.

The pans create a very versatile seating system, which is ideal for clients whose condition may change (e.g., clients with head injury).

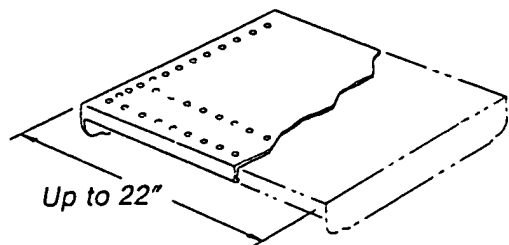


### ***Aluminum pans***

Aluminum pans are light but strong. Durable aluminum construction means a seating system that provides durable support for even extremely spastic or heavy clients.

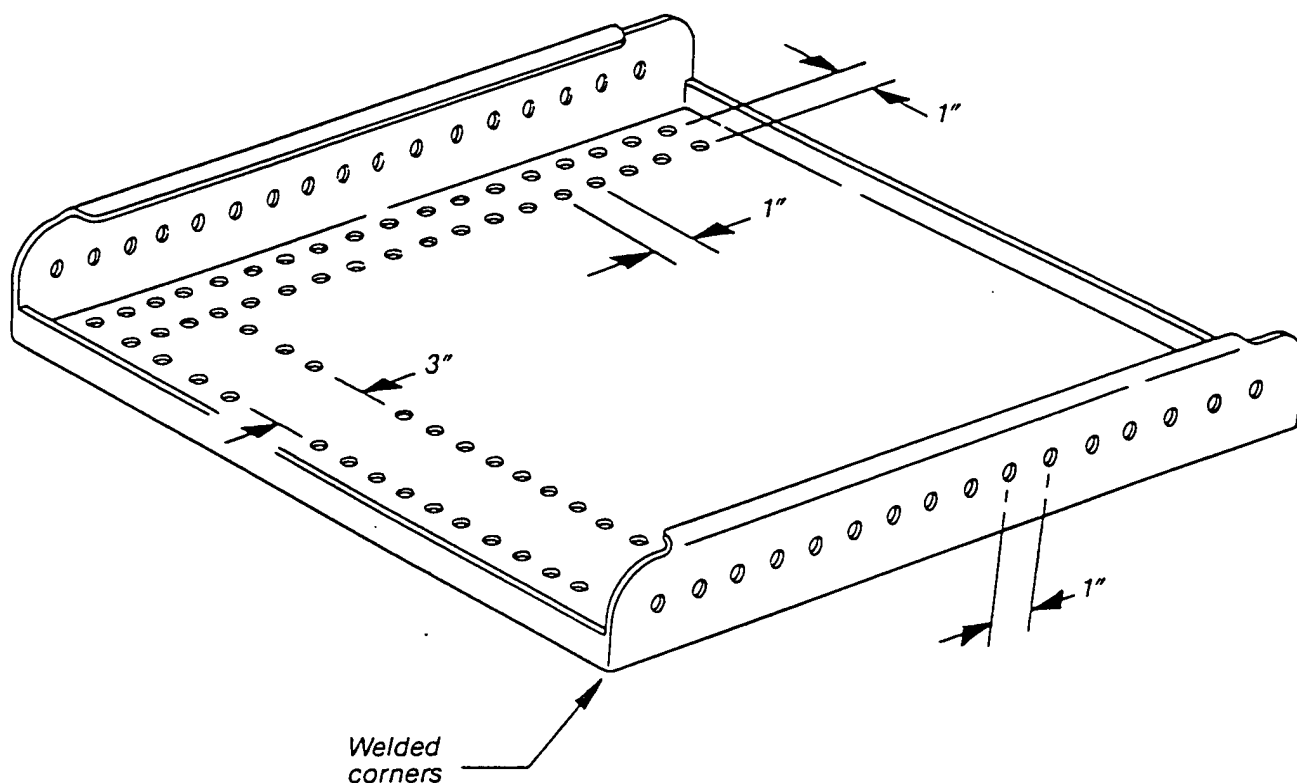
### ***Pricing***

***Aluminum Pans (12"-18" wide)..... \$150***



### ***Oversize Pans***

2016	20" x 16" aluminum pan .....	\$200
2018	20" x 18" aluminum pan .....	\$200
2020	20" x 20" aluminum pan .....	\$200
2022	20" x 22" aluminum pan .....	\$200
2224	22" x 24" aluminum pan .....	\$200



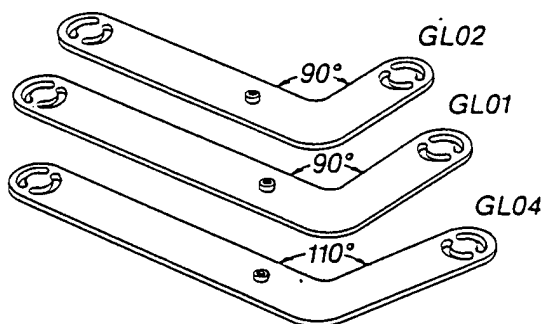
<u>Part#</u>	<u>width x length</u>				
1206.....	12" x 6"	1408.....	14" x 8"	1608.....	16" x 8"
1207.....	12" x 7"	1409.....	14" x 9"	1609.....	16" x 9"
1208.....	12" x 8"	1410.....	14" x 10"	1610.....	16" x 10"
1209.....	12" x 9"	1411.....	14" x 11"	1611.....	16" x 11"
1210.....	12" x 10"	1412.....	14" x 12"	1612.....	16" x 12"
1211.....	12" x 11"	1413.....	14" x 13"	1613.....	16" x 13"
1212.....	12" x 12"	1414.....	14" x 14"	1614.....	16" x 14"
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1215.....	12" x 15"	1417.....	14" x 17"	1617.....	16" x 17"
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1217.....	12" x 17"	1419.....	14" x 19"	1619.....	16" x 19"
1218.....	12" x 18"	1420.....	14" x 20"	1620.....	16" x 20"
		1421.....	14" x 21"	1621.....	16" x 21"
		1422.....	14" x 22"	1622.....	16" x 22"
				1808.....	18" x 8"
				1809.....	18" x 9"
				1810.....	18" x 10"
				1811.....	18" x 11"
				1812.....	18" x 12"
				1813.....	18" x 13"
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				1817.....	18" x 17"
				1818.....	18" x 18"
				1819.....	18" x 19"
				1820.....	18" x 20"
				1821.....	18" x 21"
				1822.....	18" x 22"



## Growth links

Growth links are used to connect the seat to the back pan. They provide linear and angular adjustability between the two pans. Growth links should only be used with mobility bases that have back uprights where the system can be supported. Growth links have angular adjustability in two areas, accommodating back flexion/extension and hip flexion/extension.

Growth links have a threaded fastener at an appropriate spot for mounting a seat belt at a 45-degree angle. When choosing the correct growth links, consider the clients size and weight and the type of mobility base used.



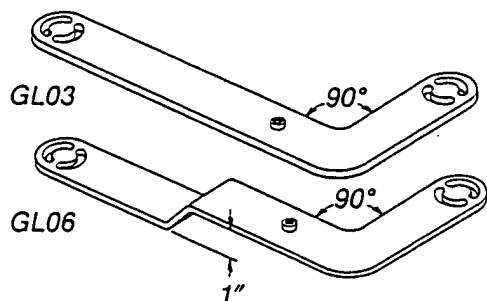
### Regular growth links

Regular links are the most popular style. Small links are used with back heights of less than 10 inches. 110-degree links are used for back-to-seat angles greater than 100 degrees.

GL01	Regular links (pr).....	\$100
GL02	Small links (pr).....	\$100
GL04	110-degree links (pr) .....	\$120

### Special growth links

Extra-strong growth links provide more than twice the strength of the regular links. Use offset growth links when you want to use a seat pan that is 2 inches wider than the back pan.

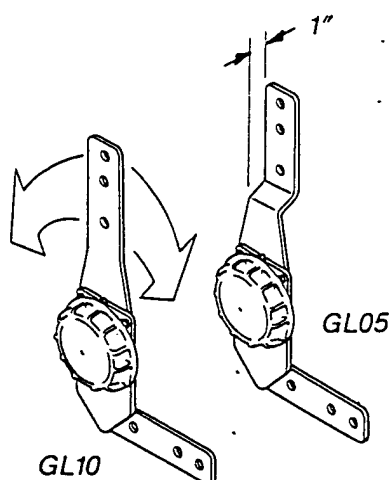


GL03	Extra-strong links (pr).....	\$130
GL06	Offset links (pr).....	\$130

## Dial links

Dial links are used when maximum strength and a positive lock is needed. They are required when you need the seat and back modules locked together as one unit, such as when interfacing the seating system to a pedestal-mount scooter, power base, or tilt-in-space bases (e.g. Impala - page 32). Dial links reduce the amount of time necessary to assemble and fit the system.

Dial links allow for back-to-seat angle adjustability. To do this, mount the seat to the wheelchair at four corners and leave the back supported only by the dial links. The resulting system will have adjustable back-to-seat angle. It will also have adjustable tilt (recline) if mounted to a tilt-in-space base.

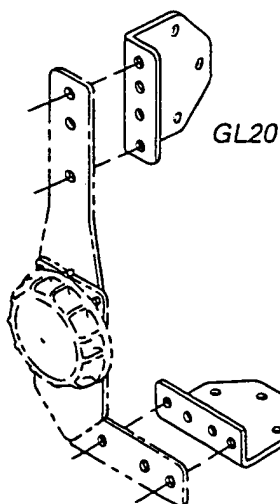


### Dial links

Dial links provide increased strength vs. growth links, while offering infinite adjustability of back-to-seat angle.

Offset dial links are used when the seat pan is 2 inches wider than the back pan, to allow the back to fit between the uprights.

GL10	Dial links (pr)	.....	\$175
GL05	Offset dial links (pr)	.....	\$195



### Wood adapters

Wood adapters mount easily to the dial links. They allow dial links to be attached to surfaces other than the aluminum pans.

GL21	Wood adapters (pr)	.....	\$60
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## Interfacing hardware

Interfacing hardware connects the seat and back modules to the mobility base. Pin Dot offers several styles of interfacing. The most simple style mounts the pans directly onto the wheelchair tubing at a fixed angle. On the other hand, the most sophisticated hardware has a positive lock and allows for a great variety of adjustments.

Important features to consider:

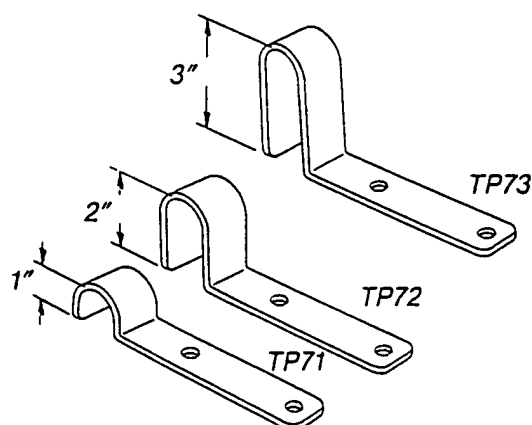
**Positive lock.** To secure the seating system to the mobility base, the interfacing must have an easy-to-use locking mechanism.

**Adjustable angle.** To fine-tune the client's position in the seating system, the angle of the aluminum pan, in relation to the wheelchair tubing, should be adjustable.

**Offset/Pivot adjustments.** For greater versatility, the seat or back modules can be mounted with hardware that can pivot or be offset.

**Clearance.** When the seating system is removed from the base, the seating system is clear from unnecessary hardware and can be placed on a piece of furniture.

Type	Lock	Rotate	Offset	Clearance	List price (4)
Drop hooks	no	no	no	no	\$48
Mounting brackets	yes	no	no	no	\$88
UT hardware	yes	yes	yes	no	\$160
Trunions	yes	yes	yes	yes	\$220



### Drop Hooks

Drop hooks are designed for mounting solid seats to tubular frames. Made of black-coated steel, they drop onto 7/8-inch tubing.

TP71	1-inch drop hook .....	\$12
TP72	2-inch drop hook .....	\$12
TP73	3-inch drop hook .....	\$12

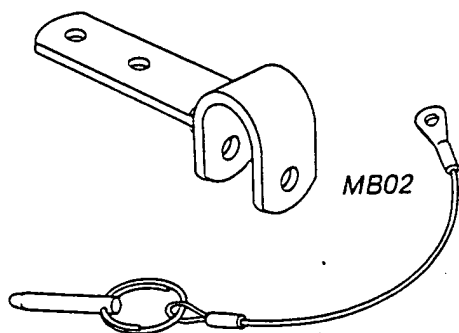
## Mounting brackets

Mounting brackets are used when the modules are mounted directly onto the wheelchair frame. Use only if no angle adjustability of the seat or back is needed.

Mounting brackets provide a simple, strong, and positive connection between the pan and the wheelchair frame. They can be used in a variety of situations, but are often used when attaching a system to a tilt-in-space base. The locking pin can be replaced with bolts for tamper-proof installations.

### Recessed mounting brackets

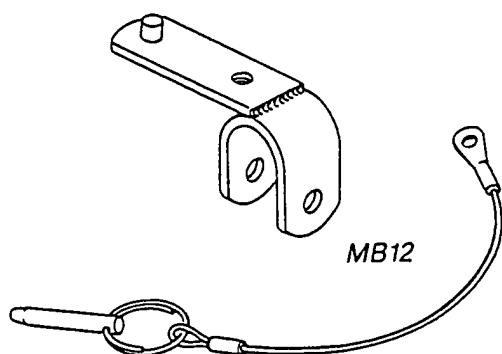
Use recessed mounting brackets for pans that are narrower than the mobility base (e.g., a 14-inch pan into a 16-inch wheelchair). Both the 7/8-inch and 1-inch brackets have two attachment holes, to be used with either aluminum pans or wood mounted systems. Includes a pin for locking to the tube.



- MB02** Mounting bracket - rec 7/8" .....\$22  
**MB05** Mounting bracket - rec 1" .....\$22

### Flush mounting brackets

Pan/flush mounting brackets are for pans the same size as the mobility base (e.g., a 16-inch pan into a 16-inch frame). Wood/flush brackets have two attachment holes for use with plywood systems or a hole and pin for aluminum pans.



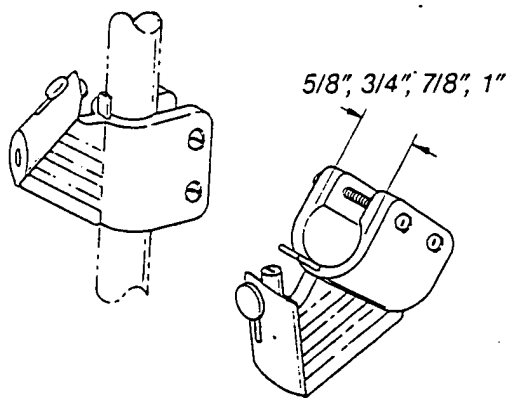
- MB12** Mounting brkt pan/flush 7/8" .....\$22  
**MB04** Mounting brkt pan/flush 1" .....\$22  
**MB03** Mounting brkt wood/flush 7/8" .....\$22  
**MB06** Mounting brkt wood/flush 1" .....\$22

## UT interfacing

Developed by the University of Tennessee Rehab Engineering Department, the UT hardware provides a simple and inexpensive way to mount a seating system to a wheelchair.

**NEW!** The UT hardware is now easy to use with aluminum pans, because the holes on the outrigger brackets match the holes on the aluminum pans.

The hardware consists of three parts, outrigger, outrigger bracket, and pop-in. Use two sets of hardware per pan, and use different sizes of outriggers to vary the amount the pan is offset from the wheelchair tube. The pop-ins mount directly to the wheelchair tubes and provide a locking receptacle for the outriggers.

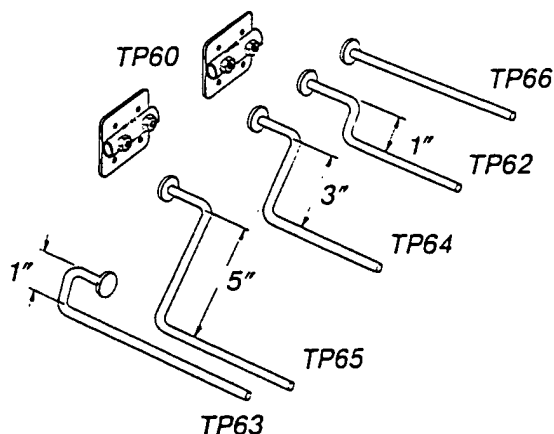


### Pop-ins

The pop-ins are injection molded clamps. They allow the system to be easily attached and removed from most wheelchairs.

To turn the pop-in into a stop block, remove the spring loaded plunger.

TP37	Nylon pop-in - 5/8-inch .....	\$15
TP38	Nylon pop-in - 3/4-inch .....	\$15
TP40	Nylon pop-in - 7/8-inch .....	\$15
TP39	Nylon pop-in - 1-inch .....	\$15



### Outriggers

They consist of two parts, outriggers and the outrigger brackets. The holes on the new brackets fit the pans. The outriggers provide great adjustability between the pan and the wheelchair.

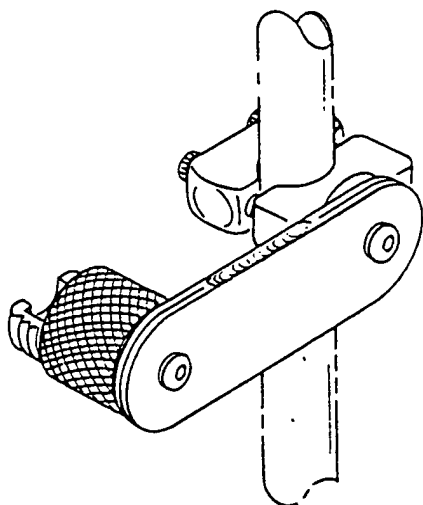
TP60	Outrigger brackets (pr) .....	\$30
TP66	Outrigger - straight.....	\$10
TP63	Outrigger - J-style .....	\$10
TP62	Outrigger - 1-inch offset.....	\$10
TP64	Outrigger - 3-inch offset.....	\$10
TP65	Outrigger - 5-inch offset.....	\$10

## Trunion mounts

Trunions provide the strongest method for interfacing aluminum pans to mobility bases. They consist of three parts, trunion mounts, trunion knobs, and spacers.

Trunions make it easy to adjust and fine-tune the angular orientation of the seating system. Also, it is easy to remove the seating system from the mobility base, and the system is clear from any hardware so it can be placed on a piece of furniture or the floor.

Each trunion mount must be used with a knob (ordered separately). Please refer to the trunion interfacing chart (next page) for information on how to use the trunions with different styles of wheelchairs.



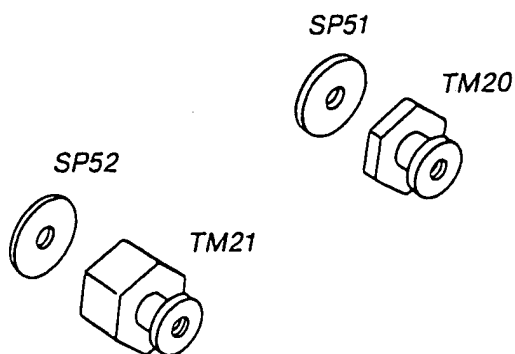
### Trunion mounts

Trunion mounts are available to fit 7/8" tubing in three sizes. The trunion wrench grabs the screw block, so you can tighten it without damage. Use the long connecting link for a greater offset.

TM01	Trunion mount - small.....	\$50
TM02	Trunion mount - medium.....	\$50
TM03	Trunion mount - large .....	\$50
TM04	Trunion mount - MacLaren.....	\$50
TL06	Trunion wrench.....	\$16
TM59	Long connecting links-add (ea) .....	\$10

### Trunion knobs & spacers

Trunion knobs are attached to the aluminum pan and lock into the trunion mount. The spacers allow for fine-tuning of the alignment between the pan and the wheelchair.



TM20	Trunion knob - small .....	\$5
TM21	Trunion knob - large.....	\$5
SP51	Spacers - 1/8-inch (10) .....	\$10
SP52	Spacers - 1/16-inch (25) .....	\$10

## Trunion interfacing chart

Use the short chart below to determine the proper trunion mounts and knobs for interfacing to standard E&J-style wheelchairs. A same size seat and wheelchair is, for example, a 16" pan and a 16" wheelchair. A smaller seat than wheelchair would be a 14" pan and a 16" wheelchair.

	Seat	Back	Knobs
<b>Same size seat and wheelchair</b>	TM03	TM02	TM20
<b>Smaller seat than wheelchair</b>	TM02	TM01	TM21

For other brands, styles or sizes of wheelchair: (1) Identify the seat pan width. (2) Go down the column to the measurement for the distance (o.d.) between the seat rails or back uprights. (3) The order number for the correct trunion mount, knob, and spacers is to the right of this measurement. Use all interfacing componentry in pairs (order extra spacers for fine-tuning the fit).

12" pans		14" pans		16" pans		18" pans	
12"	TM03 TM20	14"	TM03 TM20	16"	TM03 TM20	18"	TM03 TM20
12.25"	TM03 TM20 SP51	14.25"	TM03 TM20 SP51	16.25"	TM03 TM20 SP51	18.25"	TM03 TM20 SP51
12.5"	TM03 TM20 SP51(2)	14.5"	TM03 TM20 SP51(2)	16.5"	TM03 TM20 SP51(2)	18.5"	TM03 TM20 SP51(2)
12.75"	TM02 TM20	14.75"	TM02 TM20	16.75"	TM02 TM03	18.75"	TM02 TM03
13"	TM02 TM20 SP51	15"	TM02 TM20 SP51	17"	TM02 TM20 SP51	19"	TM02 TM20 SP51
13.25"	TM03 TM21	15.25"	TM03 TM21	17.25"	TM03 TM21	19.25"	TM03 TM21
13.5"	TM01 TM20	15.5"	TM01 TM20	17.5"	TM01 TM20	19.5"	TM01 TM20
13.75"	TM01 TM20 SP51	15.75"	TM01 TM20 SP51	17.75"	TM01 TM20 SP51	19.75"	TM01 TM20 SP51
14"	TM02 TM21	16"	TM02 TM21	18"	TM02 TM21	20"	TM02 TM21
14.25"	TM02 TM21 SP51	16.25"	TM02 TM21 SP51	18.25"	TM02 TM21 SP51	20.25"	TM02 TM21 SP51
14.5"	TM02 TM21 SP51(2)	16.5"	TM02 TM21 SP51(2)	18.5"	TM02 TM21 SP51(2)	20.5"	TM02 TM21 SP51(2)
14.75"	TM01 TM21	16.75"	TM01 TM21	18.75"	TM01 TM21	20.75"	TM01 TM21
15"	TM01 TM21 SP51	17"	TM01 TM21 SP51	19"	TM01 TM21 SP51	21"	TM01 TM21 SP51



## ***Accessories***

The need for accessories is minimized when using the custom contoured Contour-U cushions, because much of the support is molded right into the cushions. Still, some clients need a little extra support to maximize function and comfort.

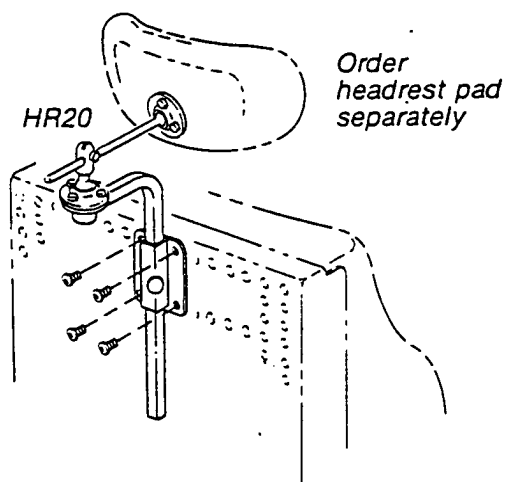
Pin Dot offers a complete line of strong, durable, and multi-adjustable accessories. They fit the pre-punched holes on the aluminum shells making it easy to attach and adjust the accessories for a precise fit. It is also simple to reposition the accessories if the client's condition changes.

	<i>Head Control</i>	<i>Shoulder Girdle</i>	<i>Trunk Support</i>	<i>Pelvic Stability</i>	<i>Lower Extremity</i>
<i>Headrests</i>	•				
<i>Chest panels</i>	•	•	•		
<i>Shoulder stabilizers</i>	•	•	•		
<i>Armrests</i>		•	•		
<i>Lateral supports</i>			•		
<i>Trays</i>		•	•		
<i>Pelvic restraints</i>				•	
<i>Abductors</i>					•
<i>Footrests</i>					•
<i>Magic Hands</i>	•	•	•	•	•
<i>Custom-molded cushions</i>			•	•	•

## Headrests

Posterior head support is often needed to prevent neck hyperextension, support a floppy head, or provide neutral stabilization of the head and neck. Headrests provide that posterior support surface. They can be used minimally by persons needing a place to rest and center, or they can be used much more aggressively to change tone or reflexes.

Head position and support is especially important during feeding. It is strongly recommended that those using a wheelchair during transport or those in a power wheelchair use some type of posterior head support. This will greatly reduce the potential for neck hyperextension during sudden stops. The headrest pads may be flat posterior support, or contoured to provide additional occipital support.



### Headrest hardware

The swivel headrest hardware allows for optimum positioning of molded pads (shown below). The straight bar model does not protrude rearward from the back pan for less interference.

<b>HR20</b>	<b>Swivel headrest hardware .....</b>	<b>\$120</b>
<b>HR21</b>	<b>Straight-bar hardware .....</b>	<b>\$120</b>

### Headrest pads

The small headrest pad works well for kids. It provides general centering control. The large headrest pad works well with the majority of clients. The two-step pad is contoured, with an occipital ledge.

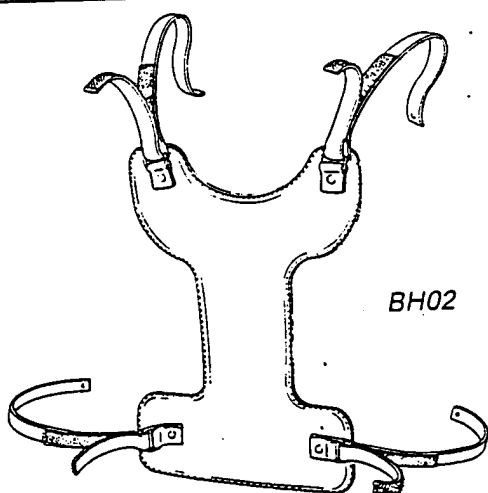


<b>HR01</b>	<b>Small headrest pad .....</b>	<b>\$80</b>
<b>HR02</b>	<b>Large headrest pad .....</b>	<b>\$80</b>
<b>HR03</b>	<b>Two-step headrest pad .....</b>	<b>\$80</b>

## Chest panels

Proper positioning of the upper body is achieved through a combination of shoulder, arm, and back support. Butterfly straps provide anterior trunk support, preventing excessive forward flexion and maintaining the trunk against the back of the seating system. The "butterfly" part provides a firm support in the chest area rather than the strapping system of traditional H-straps.

The pad provides pressure onto the sternal area of the chest, holding the trunk in position against the back cushion of the seating system. Place the straps so one of the lower straps is permanently attached to the chair to prevent the butterfly from accidentally sliding up. The top straps, attached just below the top of the shoulder girdle, will assist in pulling down at the shoulders.

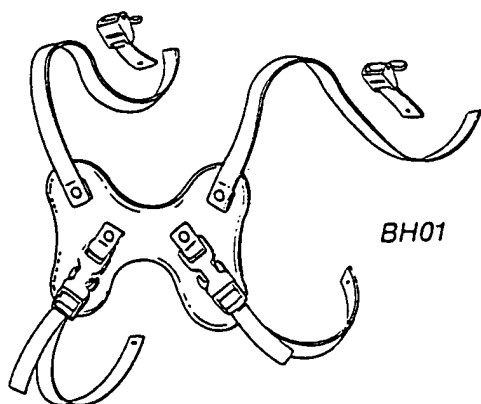


### Velcro-style butterfly strap

These high-quality pads are made from 3/8-inch visco-elastic foam bonded to 1/16-inch polyethylene with a soft vinyl upholstery. They are available in three standard sizes.

BH03	X-small butterfly - velcro.....	\$75
BH01	Small butterfly - velcro.....	\$75
BH02	Large butterfly - velcro .....	\$75

*please specify color (yellow, blue, grey)*



### Buckle-style butterfly strap

With this style of butterfly strap, buckles are used instead of velcro allowing easy application and fit. They are available in three standard sizes.

BB03	X-small butterfly - buckle.....	\$75
BB01	Small butterfly - buckle.....	\$75
BB02	Large butterfly - buckle.....	\$75

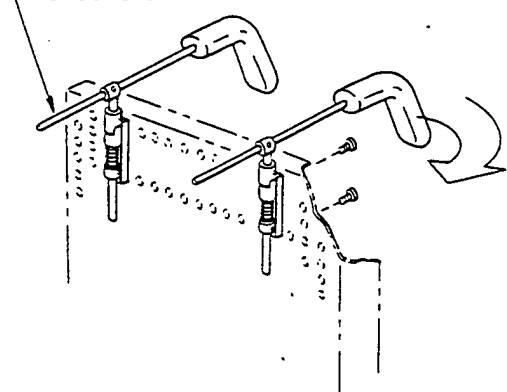
*please specify color (yellow, blue, grey)*

## Shoulder retractors & Lateral support

Shoulder retractors provide rigid control at the shoulder girdle. They also gently pull the shoulders down and back to encourage shoulder depression and retraction. When using shoulder retractors the scapular area should be relieved so as not to compress the shoulder girdle into the back. The pads of the retractors are malleable allowing for desired conformation over the clavicle.

Lateral supports are used where increased lateral trunk support is required. They are used with Contour-U when additional lateral control is desired.

Cut off  
excess bar



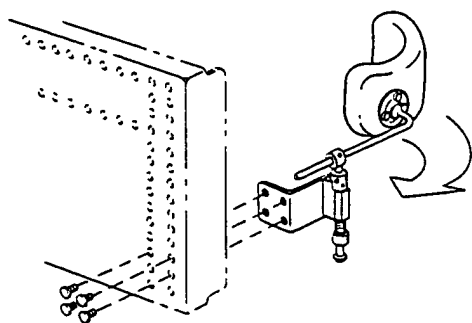
### Shoulder retractors

Use shoulder retractors where maximum trunk stabilization is desired. Malleable pads allow for a more precise fit. The pads swing away to allow for easy transfers.

**SR20** Shoulder retractors (pr) ..... \$275

### Lateral support

The swing-away lateral support can be mounted to pans or plywood. It features a spring-loaded mechanism for easy entry and exit. Other features include anterior-posterior adjustability and a malleable foam pad.



**SS20** Swing-away lateral - w/pad ..... \$245

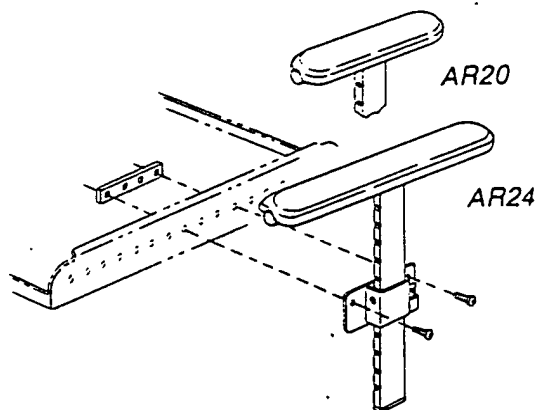
## ***Armrests & Abductor***

Use armrests mounted to the seating system for pedestal mount bases or angular-adjustable systems. Armrests are needed as a base of support if trays are used. Removable armrests are necessary for lateral transfers. Armrests can be used to mount lateral thigh support surfaces, especially those which extend beyond the front of the seat cushion. The armrests use standard tubing and can be used with other manufacturers pads.

Use a flip-down abductor (separate from the cushion) when it needs to be removable (for clients who use a urinal or for easier transfers).

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### ***Armrests***

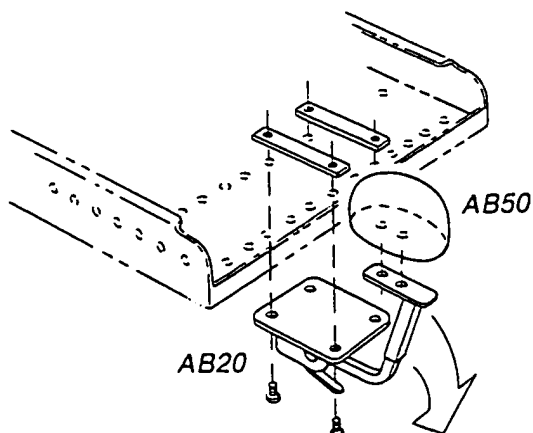


There are three options for attaching the armrests, non-removable, fixed-height, and height-adjustable with a fixed lower limit. The broad single post design can be utilized for the mounting of auxiliary pads.

<b>AR20</b>	<b>9-inch long armrests (pr)</b>	<b>\$195</b>
<b>AR24</b>	<b>14-inch long armrests (pr)</b>	<b>\$195</b>

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### ***Flip-down abductor***



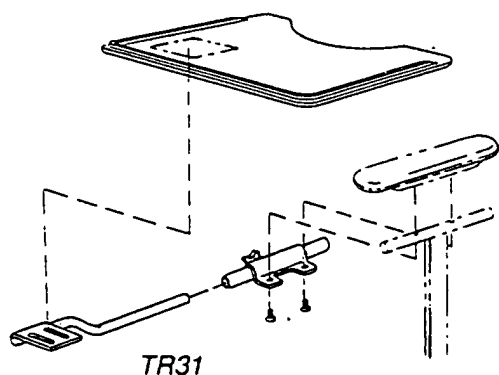
The flip-down abductor can be released with the push of a lever to store under the seat. It is height-adjustable allowing it to fit on top of the seat cushion. Order the abductor pad separately (5"x 3"x 3" black only).

<b>AB20</b>	<b>Flip-down abductor (1" - 4")</b>	<b>\$260</b>
<b>AB50</b>	<b>Abductor pad</b>	<b>\$44</b>

## Trays & Hardware

A tray can be used to support the upper extremities. This decreases the gravitational pull on the upper trunk which is caused, in part, by the weight of the arms.

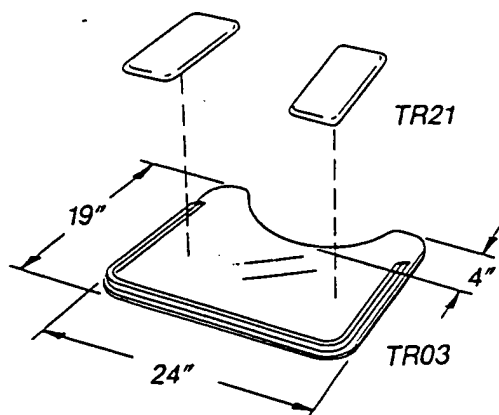
Think of trays as accessible work surfaces. Trays are often part of the support structure for the client. They are useful forming the base for communication devices, from manual bliss boards to electronic styles.



### Tray supports

The tray arm receptacle is compatible with the Pin Dot height-adjustable armrests. The bracket can be mounted to the right or left armrest. The support arm is used on either side of the tray (or both sides for heavy-duty applications).

TR30	Tray support arm (left) .....	\$30
TR31	Tray support arm (right) .....	\$30
TR32	Tray arm receptacle .....	\$46



### Tray / Elbow protectors

Our lexan tray has a "generic" cut-out, which works well for many clients. It is 1/4-inch thick, with a rim across the front and sides.

Elbow protectors are used for clients who experience irritation or excessive pressure where the elbow contacts the tray.

TR03	Lexan tray - 1/4-inch .....	\$110
TR21	Elbow protectors - black .....	\$60

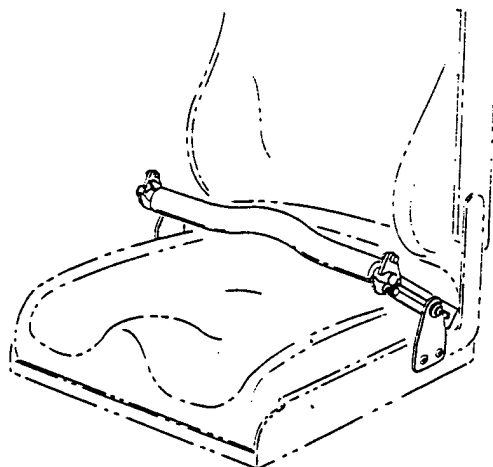
## ***Pelvic stabilizers***

The rigid pelvic stabilizer bar is a new development based on a design from David Cooper. Routine clinical use at Sunnyhill Hospital has demonstrated the effectiveness of this design in providing repeatable pelvic control for more involved clients. These clients may exhibit strong extensor thrusting and have a tendency for pelvic rotation.

The rigid pelvic stabilizer can be particularly useful for controlling pelvic rotation and extensor thrust. When used properly, it can help to insure proper pelvic positioning. Care should be taken in the fitting of this system because of the intimate positioning fit. It is important to know the client well and have the involvement of a trained seating specialist familiar with that client.

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### ***Rigid pelvic stabilizer***

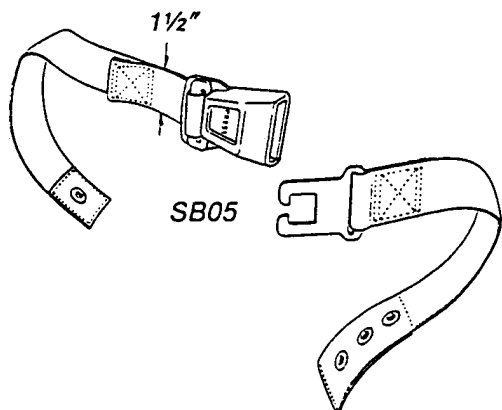


The rigid pelvic stabilizer has bilateral quick-locks to allow for easy insertion and quick disconnection. The design allows for offset positioning. The padded bar is shaped with a gentle bend accommodating the bladder. Use the small size for 12" & 14" widths, the large for 16" & 18" widths.)

- |             |   |                    |
|-------------|---|--------------------|
| <b>SB20</b> | <b><i>Rigid pelvic stabilizer (small)</i></b> | <b>..... \$268</b> |
| <b>SB21</b> | <b><i>Rigid pelvic stabilizer (large)</i></b> | <b>..... \$268</b> |

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### ***Pelvic positioning belt***



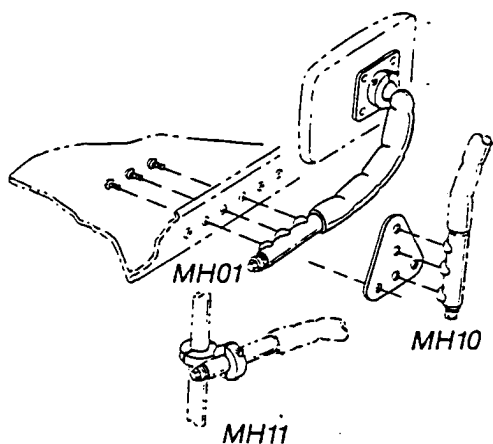
The pelvic positioning belt is length adjustable on one side, with three positioning grommets on the opposite side. The strap is 1 1/2-inches wide, with a push-button buckle closure.

- |             |                                       |                   |
|-------------|---------------------------------------|-------------------|
| <b>SB05</b> | <b><i>Pelvic positioning belt</i></b> | <b>..... \$20</b> |
|-------------|---------------------------------------|-------------------|

## Magic Hands

How often have you heard "I want to do this" or "I want to put it here"? Magic Hands provide the clinician with a strong, multi-adjustable hardware system to place the support exactly where it's needed. The ball joints move freely, allowing angulation of the supports. This enables the clinician to accomplish closer contact than standard hardware.

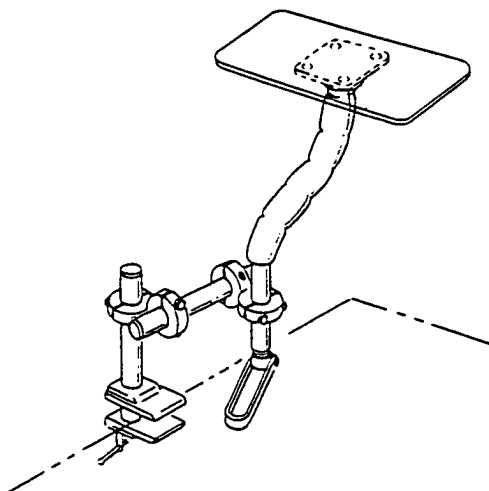
The Magic Hands easily position support surfaces including trunk supports, headrests, switches, or augmentative communication devices. When tightened, Magic Hands are very stable. One end attaches to tubes, pans, etc., while the other end attaches to the selected device. The flexible body of the Magic Hand allows ready positioning of these devices. You can firmly lock the support by tightening one nut (or the optional quick handle).



### Magic Hands

The Magic Hand can achieve complex positions. It terminates in a flat, swivel mount. Order the mounting bracket separately for 7/8-inch tube or pan mounting. The quick handle is used when frequent adjustments are anticipated.

<b>MH01</b>	<b>Magic hand .....</b>	<b>\$195</b>
<b>MH10</b>	<b>Pan mount adapter.....</b>	<b>\$20</b>
<b>MH11</b>	<b>Tube mount adapter.....</b>	<b>\$24</b>
<b>MH15</b>	<b>Quick handle .....</b>	<b>\$24</b>
<b>MH20</b>	<b>Otto Bock pad adapter.....</b>	<b>\$24</b>



### Magic hand evaluation kit

The magic hand evaluation kit is a tool for any clinician who positions a device in close proximity to a client. This kit includes a table mount bracket, a quick-action tightening handle, a terminating plate for keyboard evaluation, and other necessary hardware for a complete assistive device evaluation.

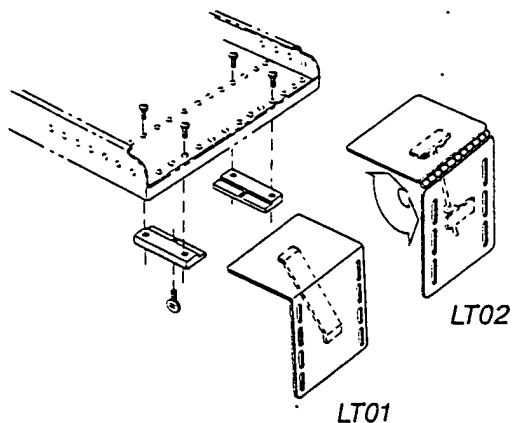
<b>MH03</b>	<b>Magic hand evaluation kit.....</b>	<b>\$450</b>
-------------	---------------------------------------	--------------



## Footrests

Footrests are often needed to properly position the legs and feet. Usually, the angle of attachment for footrests on commercially available wheelchairs pushes the knees into extension. This causes a reciprocal involvement of the pelvis and a posterior pelvic tilt.

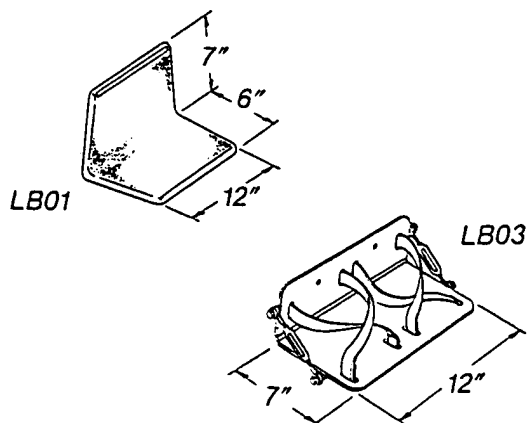
Footrests come as either the one-piece platform (usually best for children) or the two-piece variety (better for adults). Footrest tops attach to the system and allow the knees to be positioned optimally, accommodating tight hamstrings or contractures. If the legs cannot be extended to 90°, adjustable footrest tops (LT02, LT03, LT06) should be used. Adjustable footrest bottoms (LB03, LB07, LB08) are needed to accommodate foot and ankle deformities. Placing the foot in slight dorsiflexion may even decrease overall extension.



### Footrest platform tops

These platform upper brackets come two ways, (1) fixed at 90° or (2) with an adjustable knee angle. Both legrests come with sliding tracks allowing them to be easily removed from pans or plywood.

LT01	Fixed upper bracket .....	\$120
LT02	Adjustable upper bracket .....	\$140

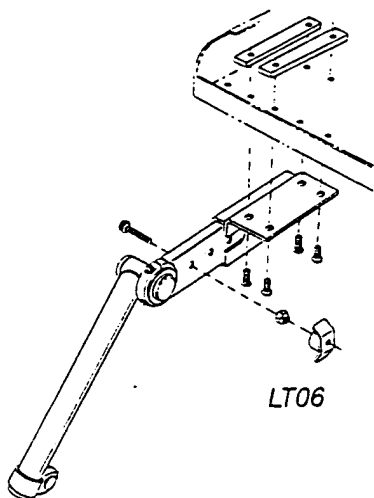


### Footrest platform bottoms

The fixed platform bottom has durable black foam molded around a steel insert.

The adjustable platform bottom allows for selection of a fixed dorsiflexion-plantarflexion angle and comes complete with X-style foot straps.

LB01	Fixed platform bottom.....	\$90
LB03	Adjustable platform bottom.....	\$120

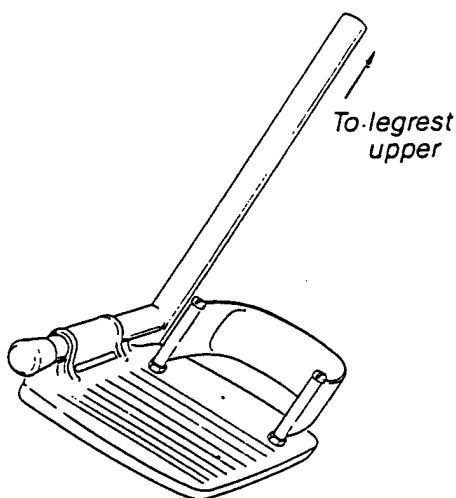


### **Footrest tops - individual legs**

The adjustable footrest tops can be fitted to match any knee angle. They can be adjusted to accommodate a windswept deformity. They accommodate leg length discrepancies with anterior-posterior adjustment. The re-install to the selected position. Another style using an Otto Bock ball joint is also available.

**LT06 Adjustable footrest tops (pr)..... \$275**

**LT03 Ball-adjustable tops (pr)..... \$275**

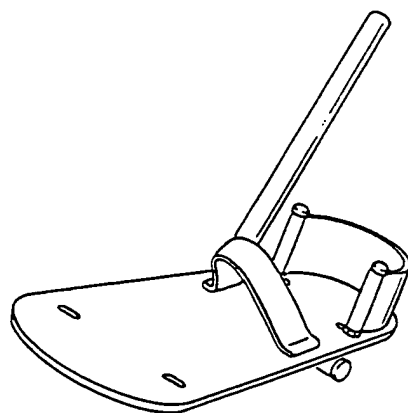


### **Individual footrests**

Our popular wheelchair style individual footrests feature a flip-up foot plate and heel loop. (Use small for 12 and 14-inch chairs, large for 16 and 18-inch chairs.)

**LB06 Small individual footrests (pr)..... \$150**

**LB05 Large individual footrests (pr)..... \$150**



### **Adjustable footrest**

Feet are an important weight-bearing surface. With adjustable footrest bottoms they match the clients foot position regardless of ankle dorsiflexion or plantarflexion. The foot plates come complete with a heel loop and ankle strap. (Use small for 12 and 14-inch chairs, large for 16 and 18-inch chairs.)

**LB07 Small adj. footrests (pr)..... \$195**

**LB08 Large adj. footrests (pr)..... \$195**

## Impala

Impala meets the mobility needs of moderately to severely involved clients. It is designed specifically for Contour-U and is shipped with all the interfacing hardware included (you save up to \$220 just on interfacing).

Actually, the base can easily be used with many other types of cushions that fit the aluminum shells, such as T-Foam®, ROHO®, or Jay® cushions. Impala is also easy to use with other commercially available seating systems and home-made systems.

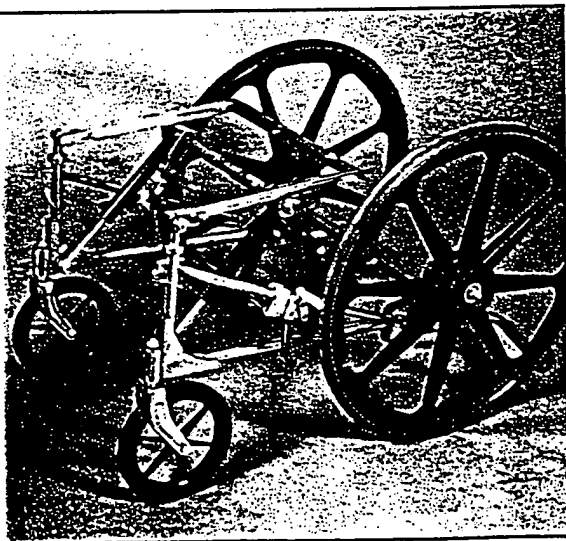
**Proper positioning.** Impala's easy tilt adjustment minimizes many seating problems. Also, the front of the base is completely clear, so it is easy to position the legs.

**Cost effective.** The simple growth adjustment allows Impala to grow with a client for years.

**Good stability and access.** Impala's tilt lowers the client (and the center of gravity) and maintains the low knee height.

**Functional mobility.** Impala is available with either small or large rear wheels to meet individual mobility needs. An optional 5-inch front caster allows for added foot clearance.

**Easy assembly.** Impala is shipped fully assembled except for the rear wheels. All the interfacing hardware is included for aluminum pans.



### Impala mobility base

WB11 Impala - 12" wheels ..... \$1,295

WB24 Impala - 24" wheels ..... \$1,295

Please specify the size of the cylinders (see page 35)

### Options

WB60 5-inch front casters - add ..... \$42

WB50 Quick-release axles - add ..... \$120

WB21 20" wheels - add ..... \$120

Options available only at the time of original order

# 10 Reasons for selecting the Impala Mobility Base.

## 1 Infinite Tilt Adjustment

Two gas cylinders allow for a smooth, steady tilt action (from 0°–29° tilt) and provide gentle assist for raising the seat. The tilt adjustment can help minimize seating problems due to hypotonia, fixed spinal deformities, or primitive flexor tone.

## 2 Consistent Knee Height

Because the pivot is placed right under the client's knees, tilting does not affect knee height. The client can fit under tables and fixtures regardless of tilt angle.

## 3 Uncluttered Front

A completely open front makes it easy to obtain optimal leg placement, even for clients with tight hamstrings.

## 4 Growth Adjustment

Impala is a cost-effective mobility base, because it grows with the client from 14" to 18" in width. Used with aluminum shells, Impala accommodates 14"–21" in seat depth and supports adults of up to 225 lbs.

## 5 Choice of Wheels

Impala is available with either 12" or 24" rear wheels. The smaller wheels allow for greater maneuverability on level surfaces. The larger wheels give the best ride on rough terrains and can be used to propel the base manually.

## 6 Straightforward Connections

Impala comes fully assembled; only the wheels need to be installed. Two hooks and two pinlocks are included as interfacing hardware for aluminum shells.

## 7 Custom Shells

The shells can be ordered on the inch for a custom fit. They accept a variety of cushions (such as pressure relief, Contour-U®, or foam cushions) and a wide range of accessories (including head supports, side supports, and butterfly straps).

## 8 Adjustable Seat-to-Back Angle

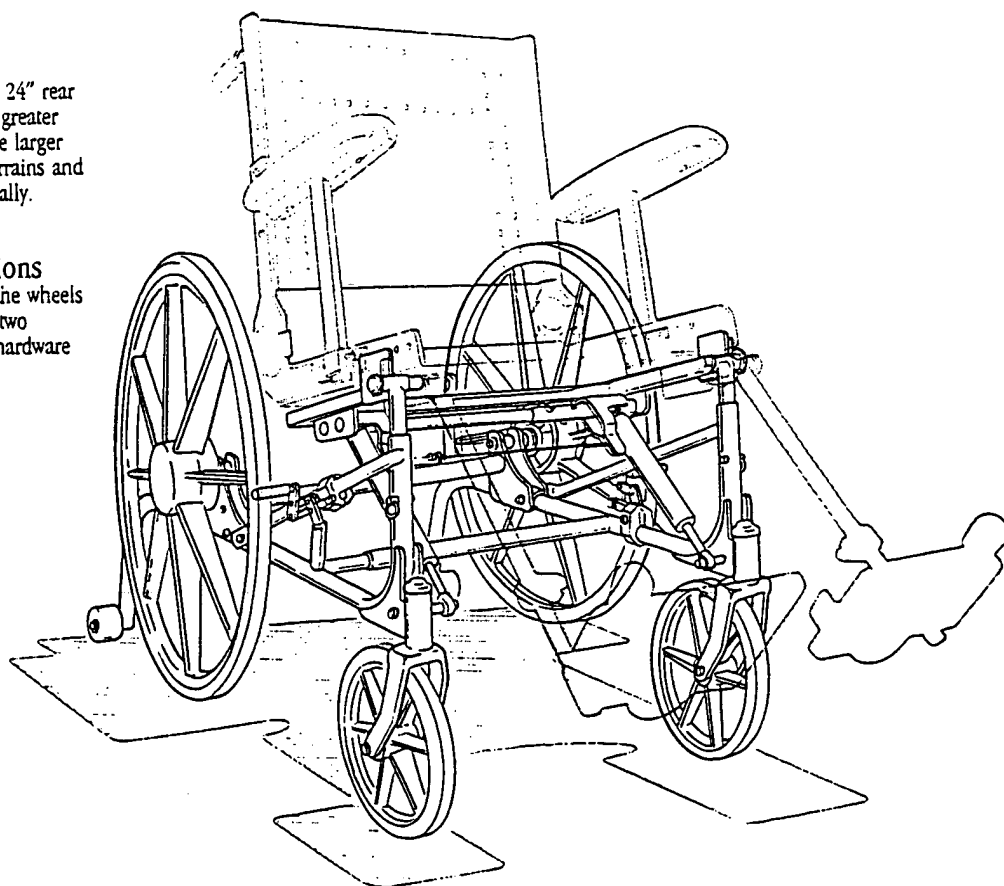
The dial links adjust the seat-to-back angle and hold the adjustment at any setting.

## 9 Multi-adjustable Leg Rests

The removable legrests are mounted underneath the seat shell and support the user's legs in both the upright and tilted position. Each legrest is multi-adjustable, so it is easy to accommodate leg length discrepancies, windswept hips, and tight hamstrings.

## 10 Money-Back Guarantee

Impala is backed by a 60-day money-back guarantee.



## Impala Kit

The Impala Kit includes all of the necessary hardware for a complete seating system. It offers a time-efficient way to provide high-quality seating. "the Impala Kit cut three hours off my standard interfacing time", says Sid Jenkins, Rehabilitation Technician of Mobile Molders, Tallahassee, FL.

**Aluminum pans** connect easily to the Impala base. They accept Contour-U and other cushion styles such as Sun-Mate®, ROHO®, or Jay®.

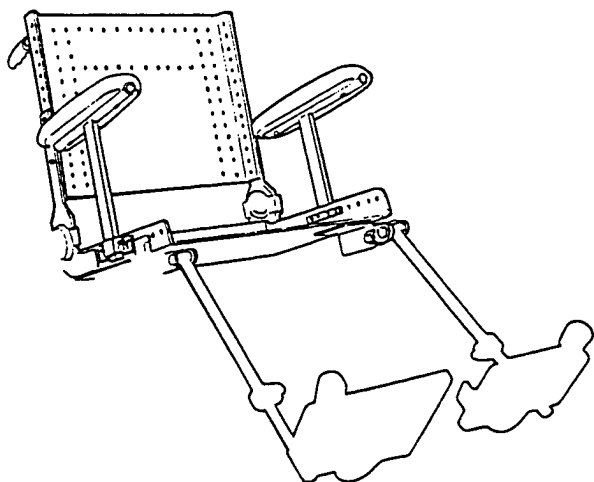
**Dial links** firmly connect the seat pan to the back pan. They provide an infinitely adjustable back-to-seat angle.

**Armrests** are height-adjustable and easily removable. They attach directly to the pans.

**Legrests** support the user's legs, even in the tilted position. They are individually adjusted to accommodate deformities.

### What's included in the kit:

—	Aluminum pans (2) .....	\$300
GL10	Dial links (pr).....	\$175
LT06	Footrest tops (pr) .....	\$275
LB07	Adjustable footrests (pr) .....	\$195
AR24	Adj. armrests (pr).....	\$195
WB80	Push handles (pr) .....	\$80
	Subtotal .....	\$1,220
	save 10% .....	<del>\$122</del>
		<b>\$1,098</b>



### Impala Wheelbase kit

The wheelbase kit includes all of the parts listed above. **Save \$122** by purchasing the kit vs. buying all of the parts listed separately.

(No substitutions, please.)

**WK21 Impala Kit .....** **\$1,098**

Please specify size of the aluminum pans, armrests, and footrest bottoms.

## ***Impala specifications***

### ***Overall***

Overall weight - 35 lbs.  
Dimensions (open):  
width - 28", length - 35"  
seat rail height - 18 1/4" or 19 3/4"

(Measurements/weight are for an 18" base with 24" wheels)

### ***Interfacing***

All hardware for interfacing the aluminum pans to the Impala mobility base included.

### ***Tilt mechanism***

Pivot location - at the knee  
Foot-release - 6" above the floor

### ***Tilt-range options***

High position: 0° - 28°  
Optional high: 7° - 32°  
Low position: 0° - 29°  
Optional low: +8° - 23°

### ***User weight options***

Light cylinders (50 - 125 lbs.)  
Medium cylinders (120 - 175 lbs)  
Heavy cylinders (170 - 225 lbs.)

### ***Wheel options***

12" spoked rear wheels  
20" mag wheels (flat proof tires)  
24" mag wheels (urethane tires)  
Optional 5" casters & quick-release axles

## ***Impala Kit specifications***

### ***Aluminum pans***

Formed aluminum - 0.125" thickness  
Maximum user weight - 225 lbs.  
Holes spaced 1-inch on center

### ***Sizes***

Pan size options: 61  
Seat pan width: 14", 16", or 18"  
Back pan width: 12", 14", 16", or 18"  
Seat pan depth: 14" - 22"  
Back pan height: 6" - 22"

### ***Dial links***

Eccentric cam mechanism provides adjustable seat-to-back angle  
70° to 150° (90° being vertical).

### ***Push handles***

Height-adjustable

### ***Armrests***

Removable  
Height-adjustable

### ***Footrests***

Mounted underneath seat pan  
Removable  
Anterior/posterior adjustments - 5"  
Infinitely adjustable knee angle adjustments  
Adjustable-angle footrest plate  
Heel loops and ankle straps

## **EndoFlex**

EndoFlex is for wheelchair users who suffer from low-back pain or sitting discomfort. EndoFlex is the alternative to old-fashioned sling upholstery and loose cushions, and it is easily fitted on manual and powered wheelchair frames. EndoFlex has proven to be most effective for individuals with diagnoses such as multiple sclerosis, muscular dystrophy, stroke (CVA), and ailments due to old age.

**NEW!** The EndoFlex back is now available as a separate item. It was designed to meet the needs of individuals with spinal cord injury, who wanted to use the dynamic back without giving up their pressure-relief cushion.

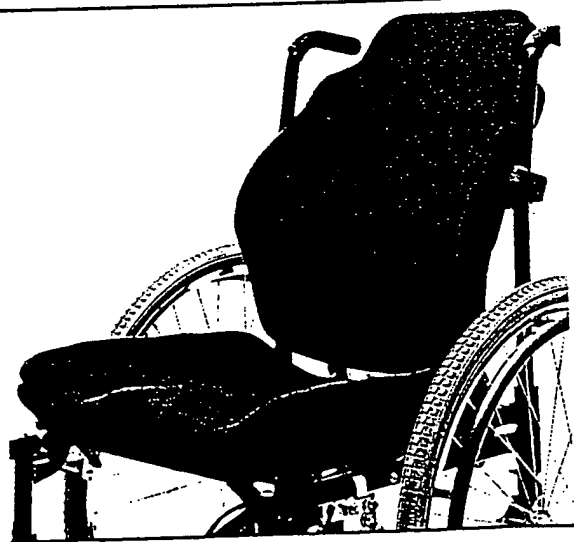
**Proper posture.** The gentle contours support the user in an anatomically correct position.

**Comfort.** The dynamic back and flexible seat make EndoFlex an amazingly comfortable system.

**Easy propulsion.** The internal frame maintains the correct relationship between the user and the chair so the wheels remain within easy reach.

**Attractive style.** The streamlined design and the "hidden" frame makes EndoFlex very stylish.

**Easy installation.** Shipped as a total system, EndoFlex can be installed and fitted in only 15 minutes.



### **EndoFlex Back / EndoFlex**

The EndoFlex back is designed for use with your existing pressure relief cushion. EndoFlex's attractive design is the modern replacement for old-fashioned seating.

EF06	16" EndoFlex Back.....	\$395
EF08	18" EndoFlex Back.....	\$395

EF16	16" EndoFlex.....	\$695
EF18	18" EndoFlex .....	\$695
EF28	Deep clip locks (pr) .....	\$40

*please specify 7/8" or 1" tubing, and color and fabric when ordering*

## 1 Endoskeletal Design

The unique, endoskeletal (internal framework) design makes the hardware invisible. Nylon strapping provides suspension, flexibility, and support so EndoFlex never bottoms out.

## 2 Comfortable Contours

The seat contours support your hips and thighs comfortably. The anatomically-designed back follows your spine's curve and supports it in its natural position.

## 3 Dynamic Back

The dynamic lumbar support allows for free and easy movement. You can lean back, stretch, or shift weight. It's even easier to propel your wheelchair.

If you prefer a fixed back, the lumbar support can be locked in the position that is most comfortable for you.

## 4 Custom Fit

The seat is depth-adjustable, giving added support under your hips and thighs. The back is height-adjustable so the dynamic lumbar support fits precisely in your lower back.

The back-to-seat angle can be changed so your body is supported in the most comfortable and functional position.

The side supports are bendable and can be shaped to provide comfortable support.

## 5 Luxurious Cover

The seat and back are individually molded and covered with luxurious fabric. The fabric is soft, yet extremely durable. It will stand up to years of heavy use. You can even wash it with soap and water.

## 6 Easy Installation

Using patented mounting brackets, your dealer can install EndoFlex in just a few minutes. There is no need to drill holes in the frame or cut it, so your wheelchair remains completely intact.

## 7 Ergonomic Fit

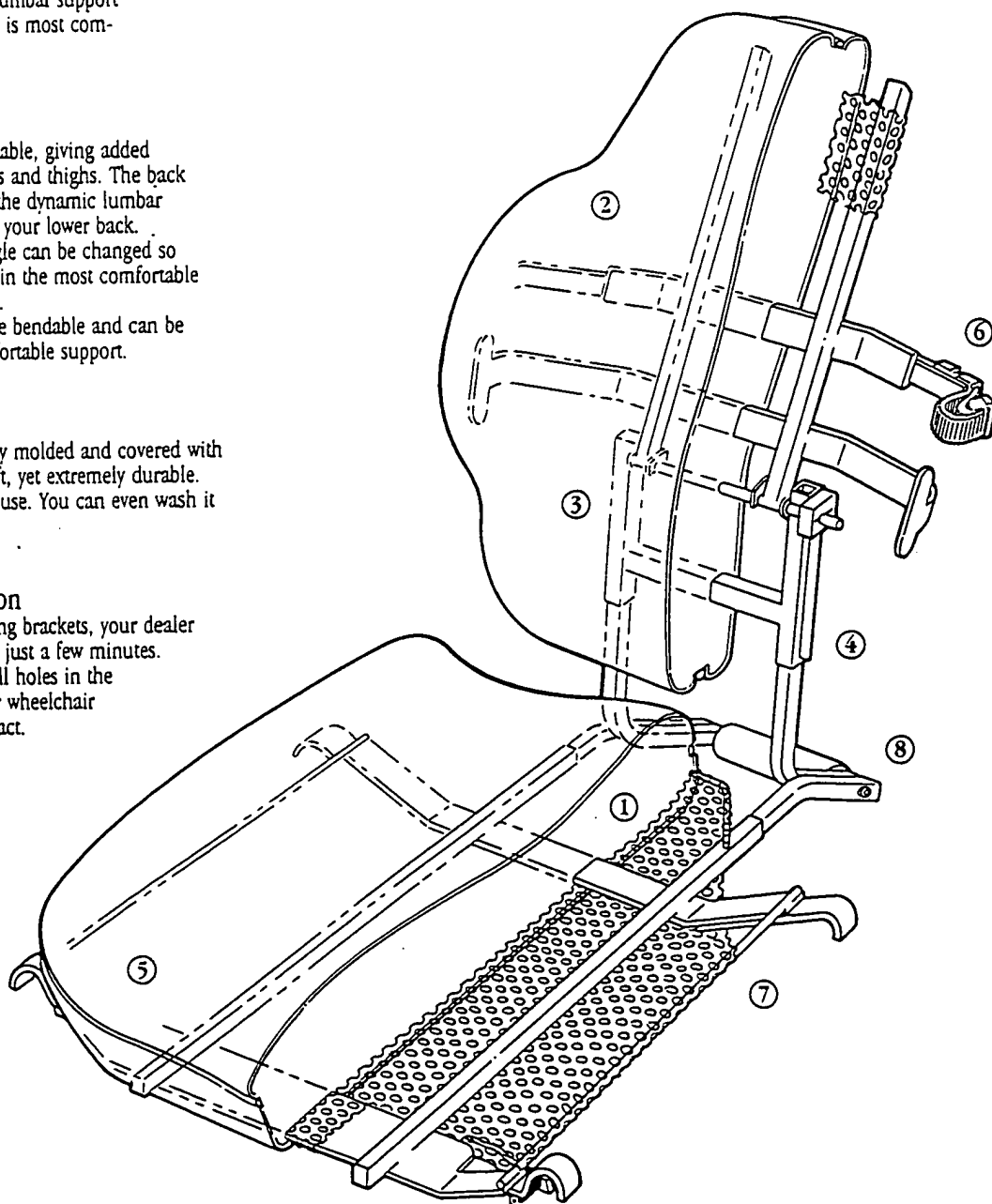
Unlike old-fashioned cushions, EndoFlex does not raise you up or push you forward. The seat remains flush with the seat rails and ensures an ergonomic fit. The wheels are kept within easy reach, and your knees continue to fit under the table.

## 8 Portable Design

EndoFlex is easy to take with you. Just release the Cliplocks, fold the seat in half, and lift it by the built-in handle.

## 9 Available Options

EndoFlex comes in many different styles and colors. Vinyl upholstery is also available. Contact your local dealer for more information.

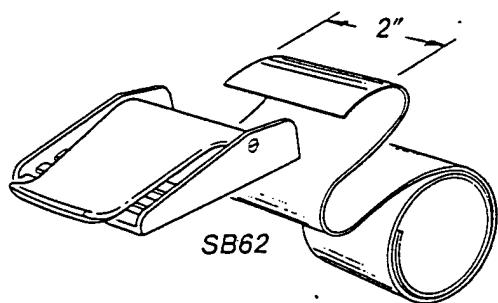




## Supplies

Below are some supplies to assist you in creating specialized seating systems.

The cloth and vinyl are both vacuum-formable and are the materials used for the production of Contour-U Cushions. The waterproof lycra (CL20) is the optional material used for upholstering Comfi cushions designed for maximum pressure relief. This material can also be used for foam-in-place applications and to produce "pockets" for gel reliefs that sit on top of the cushion. The sticky (adhesive-backed) foam is an excellent pressure disbursing foam previously used for upholstering of the CP Seat modules.



### Buckles & Webbing

Both the 1-inch nylon buckle and the 2-inch cam buckle are injection molded for strength. Nylon webbing is available in both one-inch and two-inch widths.

SB61	Nylon buckle - 1" .....	\$2*
SB62	Cam buckle - 2" .....	\$2*
VS40	Nylon webbing - 1" (5 yds) .....	\$10*
VS41	Nylon webbing - 2" (5 yds) .....	\$10*

\* dealer cost

### Cloth & vinyl

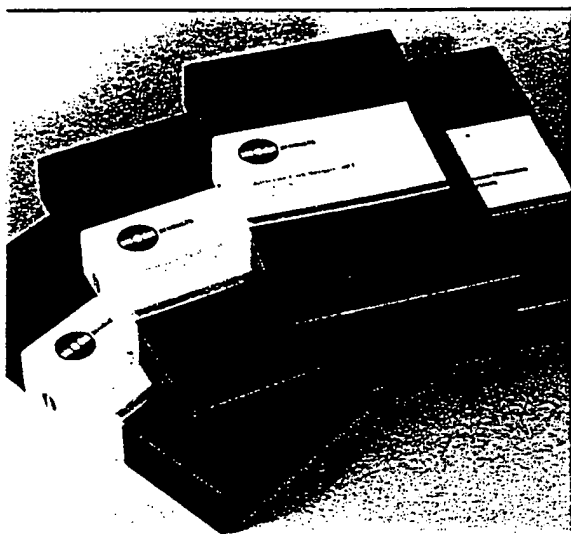
CL01	Red cloth - 30" x 36" .....	\$12*
CL02	Blue cloth - 30" x 36" .....	\$12*
CL03	Grey cloth - 30" x 36" .....	\$12*
CL04	Red vinyl - 30" x 36" .....	\$12*
CL05	Blue vinyl - 30" x 36" .....	\$12*
CL06	Black vinyl - 30" x 36" .....	\$12*
CL07	Grey vinyl - 30" x 36" .....	\$12*
CL99	Sample color swatches.....	n/c
CL20	Lycra material - black -36" x 48" ....	\$30*
FM05	Sticky foam - 12" x 12" x 1/2" .....	\$8*

\* dealer cost

## Videos

Videos can be used for staff and student education. Third party payers can view them to assist in understanding the benefits of rehab seating and these videos should also be made available to allied health professionals.

We have a number of videos to teach therapeutic concepts and principles of seating specifically. The many case studies presented by Elaine Trefler, OTR may provide ideas for positioning your own clients. Adrienne Bergen, PT shows an actual molding, and demonstrates how contour systems may be the answer to some of your positioning problems. (All tapes 1/2-inch VHS Format)

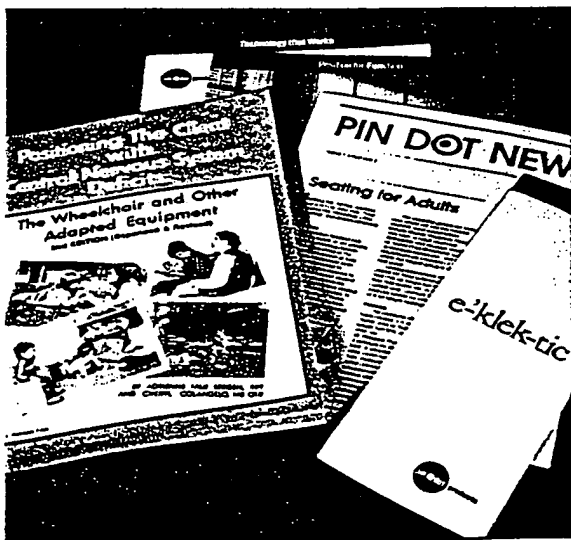


### Videos

These videotapes were recorded during our 87-88 *Current Concepts* tour. The set of tapes contains nearly four hours of material, featuring Elaine Trefler, O.T.R.; and Adrienne Bergen, PT.

<b>BR28</b>	<b>A. Bergen - Contour-U.....</b>	<b>\$25*</b>
<b>BR46</b>	<b>E. Trefler - Therapeutic concept.....</b>	<b>\$25*</b>
<b>BR47</b>	<b>E. Trefler - Matching needs .....</b>	<b>\$25*</b>
<b>BR48</b>	<b>M. Norgaard - Powered mobility.....</b>	<b>\$25*</b>
<b>BR50</b>	<b>Set of four tapes .....</b>	<b>\$80*</b>

\* dealer cost



### Books & Slides

Adrienne Bergens "bible" is one of the few books available that focuses on specialized seating. (New edition fall 1989)

Slides of the systems available from Pin Dot can be added to your own for in-services and promotion.

<b>BK01</b>	<b>Adrienne F. Bergens book.....</b>	<b>\$30*</b>
<b>SL10</b>	<b>Slide presentation (40 slides).....</b>	<b>\$50*</b>

\* dealer cost

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## ***Terms***



Regular terms are 2% discount if paid within ten days, net thirty days. For special terms see dealer information. All payment due dates are based on the date of invoice.

Invoices will be considered paid on the date the check is received. The discount applies only to the net amount. All sales are F.O.B., shipping point.

### ***Pricing***

The finished seating system may cost more than the sum of the parts. Dealers generally charge a fee for the time spent evaluating, molding, and fitting a client. All prices listed in the catalog (except page 2 & 35-38) are suggested list prices.

All prices are subject to change without notice. Please call our customer service department (1-800-451-3553) for dealer terms and information.

### ***Money-back guarantee***

Return shipments of parts and cushions are accepted if returned in good condition within sixty days of invoice date. With all returns, please include a reason for the return, the invoice number, P. O. number, and client name (if applicable) so we can properly credit your account. Returns will be subject to a 20% restocking fee after sixty days.

### ***Cushion Guarantee***

We are committed to giving you the best service possible. There is no charge for cushion re-makes within sixty days from shipping date. There is a \$250 charge for remakes for up to one-hundred twenty days from the shipping date. For remakes after sixty days, send in a new mold or modified cushion.

### ***Limited Warranty***

Pin Dot Products, Inc. will replace or repair any part found defective in material or workmanship within one year from date of purchase. Please include the original P.O. number, invoice number, and client name with the defective part.

# Index

<i>part#</i>	<i>pg#</i>	<i>description</i>	<i>price</i>
1206	12	12"x6" Aluminum pan ....	\$150
1207	12	12"x7" Aluminum pan ....	\$150
1208	12	12"x8" Aluminum pan ....	\$150
1209	12	12"x9" Aluminum pan ....	\$150
1210	12	12"x10" Aluminum pan .....	\$150
1211	12	12"x11" Aluminum pan .....	\$150
1212	12	12"x12" Aluminum pan .....	\$150
1213	12	12"x13" Aluminum pan .....	\$150
1214	12	12"x14" Aluminum pan .....	\$150
1215	12	12"x15" Aluminum pan ....	\$150
1216	12	12"x16" Aluminum pan ....	\$150
1217	12	12"x17" Aluminum pan ....	\$150
1218	12	12"x18" Aluminum pan ....	\$150
1408	12	14"x08" Aluminum pan ....	\$150
1409	12	14"x09" Aluminum pan .....	\$150
1410	12	14"x10" Aluminum pan .....	\$150
1411	12	14"x11" Aluminum pan .....	\$150
1412	12	14"x12" Aluminum pan .....	\$150
1413	12	14"x13" Aluminum pan .....	\$150
1414	12	14"x14" Aluminum pan ....	\$150
1415	12	14"x15" Aluminum pan ....	\$150
1416	12	14"x16" Aluminum pan ....	\$150
1417	12	14"x17" Aluminum pan ....	\$150
1418	12	14"x18" Aluminum pan ....	\$150
1419	12	14"x19" Aluminum pan .....	\$150
1420	12	14"x20" Aluminum pan .....	\$150
1421	12	14"x21" Aluminum pan .....	\$150
1422	12	14"x22" Aluminum pan .....	\$150
1608	12	16"x8" Aluminum pan .....	\$150
1609	12	16"x9" Aluminum pan ....	\$150
1610	12	16"x10" Aluminum pan ....	\$150
1611	12	16"x11" Aluminum pan ....	\$150
1612	12	16"x12" Aluminum pan ....	\$150
1613	12	16"x13" Aluminum pan ....	\$150
1614	12	16"x14" Aluminum pan .....	\$150
1615	12	16"x15" Aluminum pan .....	\$150
1616	12	16"x16" Aluminum pan .....	\$150
1617	12	16"x17" Aluminum pan .....	\$150
1618	12	16"x18" Aluminum pan .....	\$150
1619	12	16"x19" Aluminum pan ....	\$150
1620	12	16"x20" Aluminum pan ....	\$150
1621	12	16"x21" Aluminum pan ....	\$150
1622	12	16"x22" Aluminum pan ....	\$150
1810	12	18"x10" Aluminum pan ....	\$150

<i>part#</i>	<i>pg#</i>	<i>description</i>	<i>price</i>
1811	12	18"x11" Aluminum pan ....	\$150
1812	12	18"x12" Aluminum pan ....	\$150
1813	12	18"x13" Aluminum pan ....	\$150
1814	12	18"x14" Aluminum pan ....	\$150
1815	12	18"x15" Aluminum pan .....	\$150
1816	12	18"x16" Aluminum pan .....	\$150
1817	12	18"x17" Aluminum pan .....	\$150
1818	12	18"x18" Aluminum pan .....	\$150
1819	12	18"x19" Aluminum pan .....	\$150
1820	12	18"x20" Aluminum pan ....	\$150
1821	12	18"x21" Aluminum pan ....	\$150
1822	12	18"x22" Aluminum pan ....	\$150
2016	12	20"x16" Aluminum pan ....	\$200
2018	12	20"x18" Aluminum pan .....	\$200
2020	12	20"x20" Aluminum pan .....	\$200
2022	12	20"x22" Aluminum pan .....	\$200
2224	12	22"x24" Aluminum pan .....	\$200
AB20	26	Flip-down abductor .....	\$260
AB50	26	Abductor pad .....	\$44
AR20	26	9-inch long armrests (pr) ..	\$195
AR20-1		9-inch long arrest pad .....	\$24
AR24	26	14-inch long arm rests (pr)	\$195
AR24-1		14-inch long armrest pad .....	\$24
BB01	24	Small butterfly - buckle .....	\$75
BB02	24	Large butterfly - buckle .....	\$75
BB03	24	X-Small butterfly - buckle .....	\$75
BH01	24	Small butterfly - velcro .....	\$75
BH02	24	Large butterfly - velcro .....	\$75
BH03	24	X-Small butterfly strap .....	\$75
BK01	39	A.F. Bergen's book* .....	\$30
BP01		1-inch backing plate* .....	\$3
BP02		3-inch backing plate* .....	\$3
BP03		Cushion stop* .....	\$3
BR01		Color brochures .....	n/c
BR28	39	A. Bergen-Contour-U* .....	\$25
BR46	39	E. Treffer-Therapeutic* .....	\$25
BR47	39	E. Treffer-Matching* .....	\$25
BR48	39	M. Norgaard-Power* .....	\$25
BR50	39	Set of four tapes* .....	\$80
CL01	38	Red cloth - 30"x36"* .....	\$12
CL02	38	Blue cloth - 30"x36"* .....	\$12

<u>part#</u>	<u>pg#</u>	<u>description</u>	<u>price</u>
CL03	38	Grey Cloth - 30"x36"* .....	\$12
CL04	38	Red Vinyl - 30"x36"* .....	\$12
CL05	38	Blue Vinyl - 30"x36"* .....	\$12
CL06	38	Black Vinyl - 30"x36"* .....	\$12
CL07	38	Grey Vinyl - 30"x36"* .....	\$12
CL20	38	Lycra material - black .....	\$30
CL99	38	Color swatches .....	n/c
CM01	5	Comfi cushion - add .....	\$475
CM02	4	Contour-U cushion .....	\$445
CM03	7	Untrimmed cushion .....	n/c
CM04	8	Remake (1-60 days) .....	n/c
CM05	8	Remake (61-120 days) .....	\$250
CM06	7	Wood mount - add .....	\$110
CM07	5	Sofspot (4" round) - add .....	\$120
CM08	5	Sofspot (4"x8") - add .....	\$120
CM55	5	Sofspot (8"x8") - add .....	\$120
CM10	6	Leg length disc - add .....	n/c
CM11	7	Velcro mounting - add .....	\$90
CM12	6	Pelvic strap notches .....	n/c
CM13	6	Undercut front edge - add .....	\$50
CM15	5	Lycra cover for Comfi - add .....	\$38
CM17	8	Notch the corners - add .....	\$48
CM18	5	Thin lateral rein. add .....	\$54
CM19	7	Upholster back - add .....	\$60
CM20	4	Oversize cushion - add .....	\$50
CM22	8	Rail cuts - add .....	\$114
CM27	6	Recess (4" round) - add .....	\$40
CM28	6	Recess (4"x8") - add .....	\$40
CM29	6	Recess (8"x8") - add .....	\$40
CM30	6	Recess (custom size) - add .....	\$60
CM50	5	Sofspot (custom) - add .....	\$200
EF01		EndoFlex literature .....	n/c
EF02		EndoFlex owners manual* .....	\$5
EF06	36	16" EndoFlex Back .....	\$395
EF08	36	18" EndoFlex Back .....	\$395
EF09-3		Short hex wrench - 5/32"* ..	\$0.50
EF09-5		Back adjustment wrench* .....	\$2
EF11		EndoFlex lap belt .....	\$20
EF16	36	16" EndoFlex .....	\$695
EF18	36	18" EndoFlex .....	\$695
EF18-30		Hinge assembly .....	\$50
EF18-35		Handle cover .....	\$4
EF23		Drop hook assembly (pr) .....	\$20
EF24		Drop lock assembly (pr) .....	\$80
EF27		Clip lock assembly (pr) .....	\$40
EF28	36	Deep clip lock assm (pr) .....	\$40

<u>part#</u>	<u>pg#</u>	<u>description</u>	<u>price</u>
EF34		7/8" Positioning - front (pr) .....	\$8
EF35		7/8" Positioning - rear (pr) .....	\$20
EF36		1" Positioning - front (pr) .....	\$8
EF37		1" Positioning - rear (pr) .....	\$20
FM05	38	Sticky foam - 12"x12"* .....	\$8
GL01	14	Regular links (pr) .....	\$100
GL02	14	Small links (pr) .....	\$100
GL03	14	Thick links (pr) .....	\$130
GL04	14	110-degree links (pr) .....	\$120
GL05	15	Offset dial links (pr) .....	\$195
GL06	14	Offset links (pr) .....	\$130
GL10	15	Dial-adj. links (pr) .....	\$175
GL10-8		Dial-link cap .....	\$12
GL21	15	Wood adapters (pair) .....	\$60
HR01	23	Small headrest pad .....	\$80
HR02	23	Large headrest pad .....	\$80
HR03	23	Two-step headrest pad .....	\$80
HR20	23	Swivel headrest .....	\$120
HR21	23	Straight hardware .....	\$120
LB01	30	Fixed platform bottom .....	\$90
LB03	30	Adjustable platform .....	\$120
LB04-3		X-style ankle strap .....	\$10
LB05	31	Large ind. footrests (pr) .....	\$150
LB06	31	Small ind. footrests (pr) .....	\$150
LB07	31	Small adj. footrests (pr) .....	\$195
LB08	31	Large adj. footrests (pr) .....	\$195
LT01	30	Fixed upper bracket .....	\$120
LT01-1		Sliding brackets (pr) .....	\$60
LT02	30	Adjustable upper bracket .....	\$140
LT06	31	Adj. footrest tops (pr) .....	\$275
MB02	18	Mounting brkt-rec-7/8" .....	\$22
MB02-2		Pin/lanyard assembly .....	\$6
MB03	18	Mounting brkt - wood 7/8" ....	\$22
MB04	18	Mounting brkt - pan 1" .....	\$22
MB05	18	Mounting bracket-rec.-1" .....	\$22
MB06	18	Mounting brkt - wood 7/8" ....	\$22
MB12	18	Mounting brkt - pan 7/8" .....	\$22
MB20	10	12x10-inch back cushion .....	\$260
MB22	10	12x12-inch back cushion .....	\$260
MB42	10	14x12-inch back cushion .....	\$260
MB66	10	16x16-inch back cushion .....	\$260
MB88	10	18x18-inch back cushion .....	\$260
MF04		Polyethylene pellets-10 lb.* ..	\$10
MF10	2	Seat molding bag* .....	\$45
MF12	2	Back molding bag* .....	\$45
MH01	29	Magic hand .....	\$195
MH03	29	Magic hand eval kit .....	\$450

<i>part#</i>	<i>pg#</i>	<i>description</i>	<i>price</i>	<i>part#</i>	<i>pg#</i>	<i>description</i>	<i>price</i>
MH10	29	Pan mount adapter.....	\$20	TM02-1		Trunion block - medium.....	\$15
MH11	29	Tube mount adapter.....	\$24	TM03	20	Trunion mount - large.....	\$50
MH15	29	Quick handle .....	\$24	TM03-1		Trunion block - large.....	\$15
MH20	29	Otto Bock ball adapter.....	\$24	TM04	20	Trunion mount - MacLaren....	\$50
MP22	11	12x12-inch seat w/abd .....	\$260	TM04-1		Trunion block - MacLaren .....	\$15
MP24	11	12x14-inch seat w/abd .....	\$260	TM20	20	Trunion knob - small .....	\$5
MP44	11	14x14-inch seat w/abd .....	\$260	TM21	20	Trunion knob - large.....	\$5
MP46	11	14x16-inch seat w/abd .....	\$260	TM59	20	Long connecting link-add .....	\$10
MP66	11	16x16-inch seat w/abd.....	\$260	TP37	19	Nylon pop-in - 5/8" .....	\$15
MP68	11	16x18-inch seat w/abd.....	\$260	TP38	19	Nylon pop-in - 3/4" .....	\$15
MP88	11	18x18-inch seat w/abd.....	\$260	TP39	19	Nylon pop-in - 1" .....	\$15
MS22	11	12x12-inch seat cushion.....	\$260	TP40	19	Nylon pop-in - 7/8" .....	\$15
MS24	11	12x14-inch seat cushion.....	\$260	TP60	19	Outrigger brackets (pr) .....	\$30
MS44	11	14x14-inch seat cushion .....	\$260	TP62	19	Outrigger-1-inch offset.....	\$10
MS46	11	14x16-inch seat cushion .....	\$260	TP63	19	Outrigger - J-style .....	\$10
MS66	11	16x16-inch seat cushion .....	\$260	TP64	19	Outrigger - 3-inch offset .....	\$10
MS68	11	16x18-inch seat cushion .....	\$260	TP65	19	Outrigger - 5-inch offset .....	\$10
MS88	11	18x18-inch seat cushion .....	\$260	TP66	19	Outrigger - straight .....	\$10
SB05	28	Pelvic positioning belt.....	\$20	TP71	17	1-inch drop hook .....	\$12
SB20	28	Rigid pelvic stabilizer (sm).....	\$268	TP72	17	2-inch drop hook .....	\$12
SB21	28	Rigid pelvic stabilizer (lg).....	\$268	TP73	17	3-inch drop hook .....	\$12
SB61	38	Nylon buckle - 1" .....	\$2	TR03	27	Lexan tray .....	\$110
SB62	38	Cam buckle - 2" .....	\$2	TR21	27	Elbow protectors - black .....	\$60
SC03	7	Threaded inserts (25) .....	\$10	TR30	27	Tray support arm - left .....	\$30
SL10	39	Slides (40)* .....	\$50	TR31	27	Tray support arm - right .....	\$30
SM01	2	KISS Simulator* .....	\$3,495 00	TR32	27	Tray arm receptacle.....	\$46
SM05	1	Training* .....	\$495	VS40	38	Nylon webbing - 1" (5 yds)....	\$10
SM40	2	Planar attachments .....	call	VS41	38	Nylon buckle - 2" (5 yds) .....	\$10
SM50	2	Arrow XT adapter* .....	\$45	WB11	32	Impala - 12" wheels .....	\$1,295
SP51	20	Spacers - 1/8-inch (10).....	\$10	WB21	32	20" wheels - add .....	\$120
SP52	20	Spacers - 1/16-inch (25).....	\$10	WB24	32	Impala - 24" wheels .....	\$1,295
SR20	25	Shoulder retractors (pr) .....	\$275	WB50	32	Quick-release - add .....	\$120
SR20-1		Retractor mech - only .....	\$150	WB60	32	5-inch casters- add .....	\$42
SR20-2		Retractor pad - only.....	\$65	WB85	34	Push handles (pr).....	\$80
SS20	25	Swing-away lateral .....	\$245	WK21	34	Wheelbase Kit.....	\$1,098
SS20-1		Lateral pad - only .....	\$80	XC01		1/4 x 3/8 Button-head (25)* ....	\$3
TL06	20	Trunion wrench .....	\$16	XC16		1/4x1/2 Socket-head (25)* .....	\$3
TL07	7	Threaded insert tool .....	\$20	XC55		1/4 x 1/2 Button nyloc (25)* .....	\$5
TL30	2	Dual-head vacuum-pump*... \$495*		XC51		1/4 x 5/8 Button nyloc (25)* .....	\$5
TM01	20	Trunion mount - small .....	\$50	XC52		1/4 x 3/4 Button-head (25)* .....	\$3
TM01-1		Trunion block - small .....	\$15	XC57		1/4 x 3/4 Socket-head (25)* .....	\$3
TM01-2		Trunion mount clamp.....	\$12	XC59		1/4 x 1 Socket-head (25)* .....	\$3
TM01-3		Adjustment gear.....	\$2	XC62		1/4-20 Hex nut (25)* .....	\$3
TM01-4		Connecting link.....	\$28	XC66		1/4-20 Lock Nut - nylon (25)*..	\$5
TM01-5		Screw block .....	\$8	XC68		1/4 Flat washer (25)* .....	\$3
TM01-6		Locking collar.....	\$8	XC72		3/16 Flat washer-black (25)* ..	\$3
TM02	20	Trunion mount - medium.....	\$50				

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